

Case-control Study of Childhood Cancers in Dover Township (Ocean County), New Jersey

Volume III: Technical Report Tables and Figures

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Division of Epidemiology, Environmental and Occupational Health
New Jersey Department of Health and Senior Services

in cooperation with

Agency for Toxic Substances and Disease Registry
U.S. Department of Health and Human Services

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Volume III: Technical Report Tables and Figures

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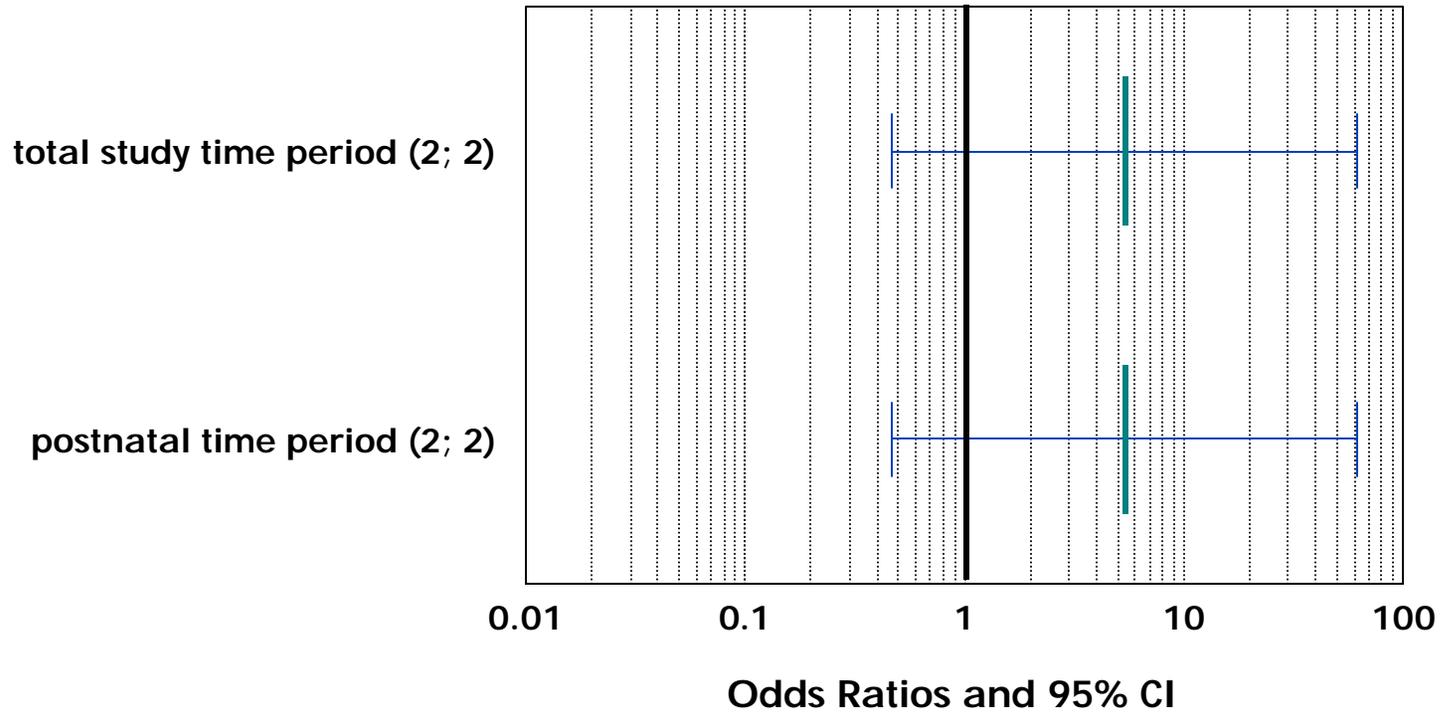
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Leukemia: Diagnosis Ages 0 to 19
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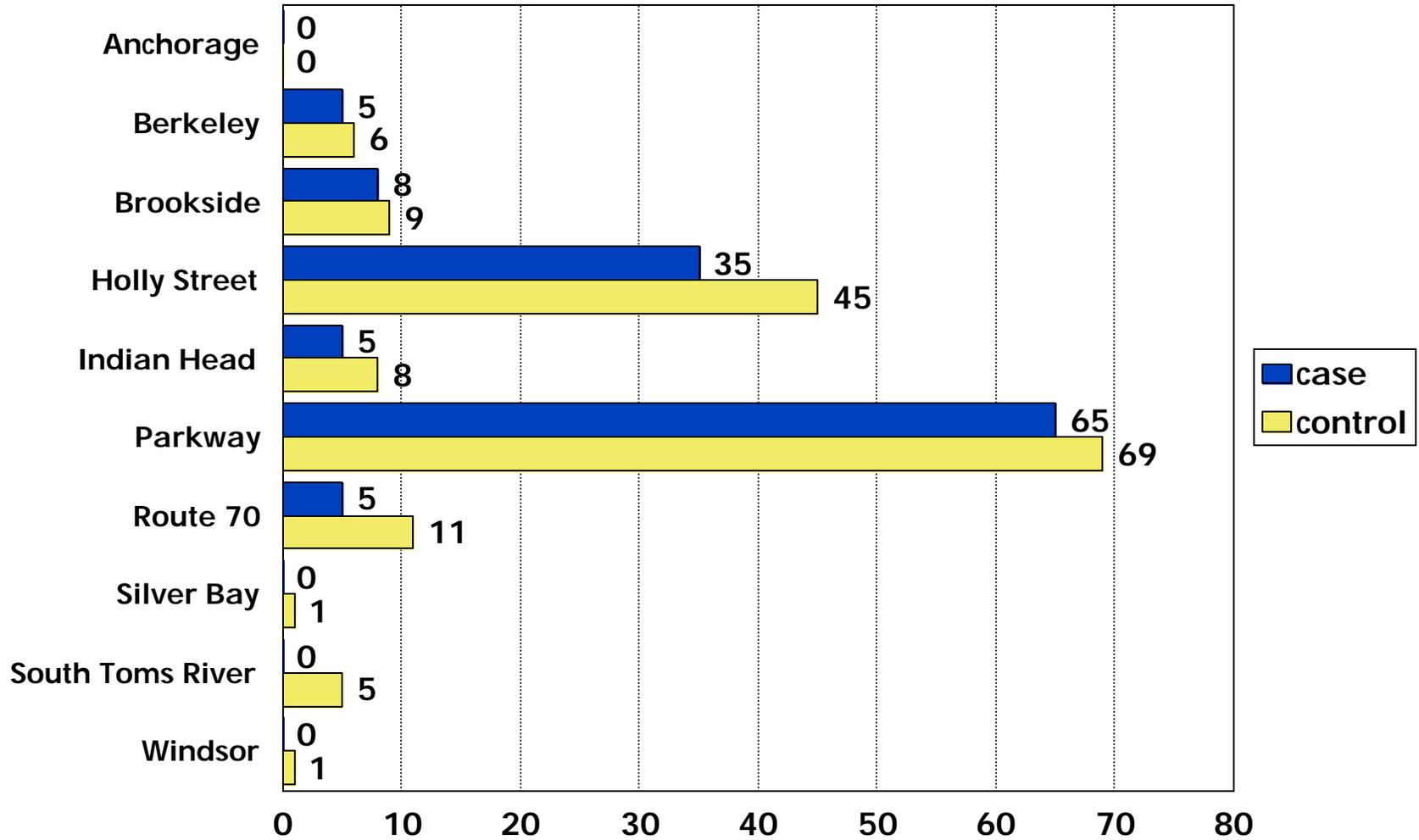
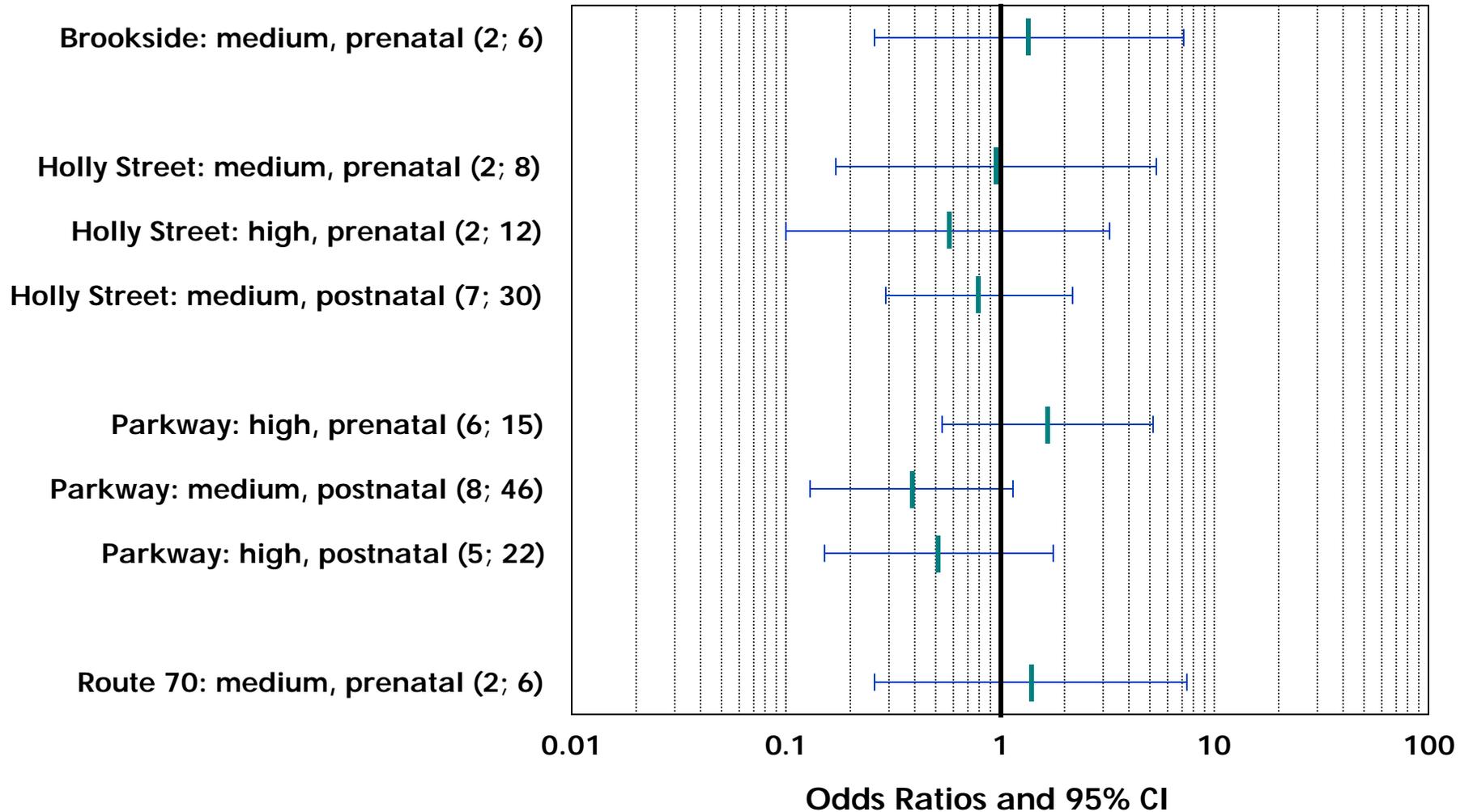


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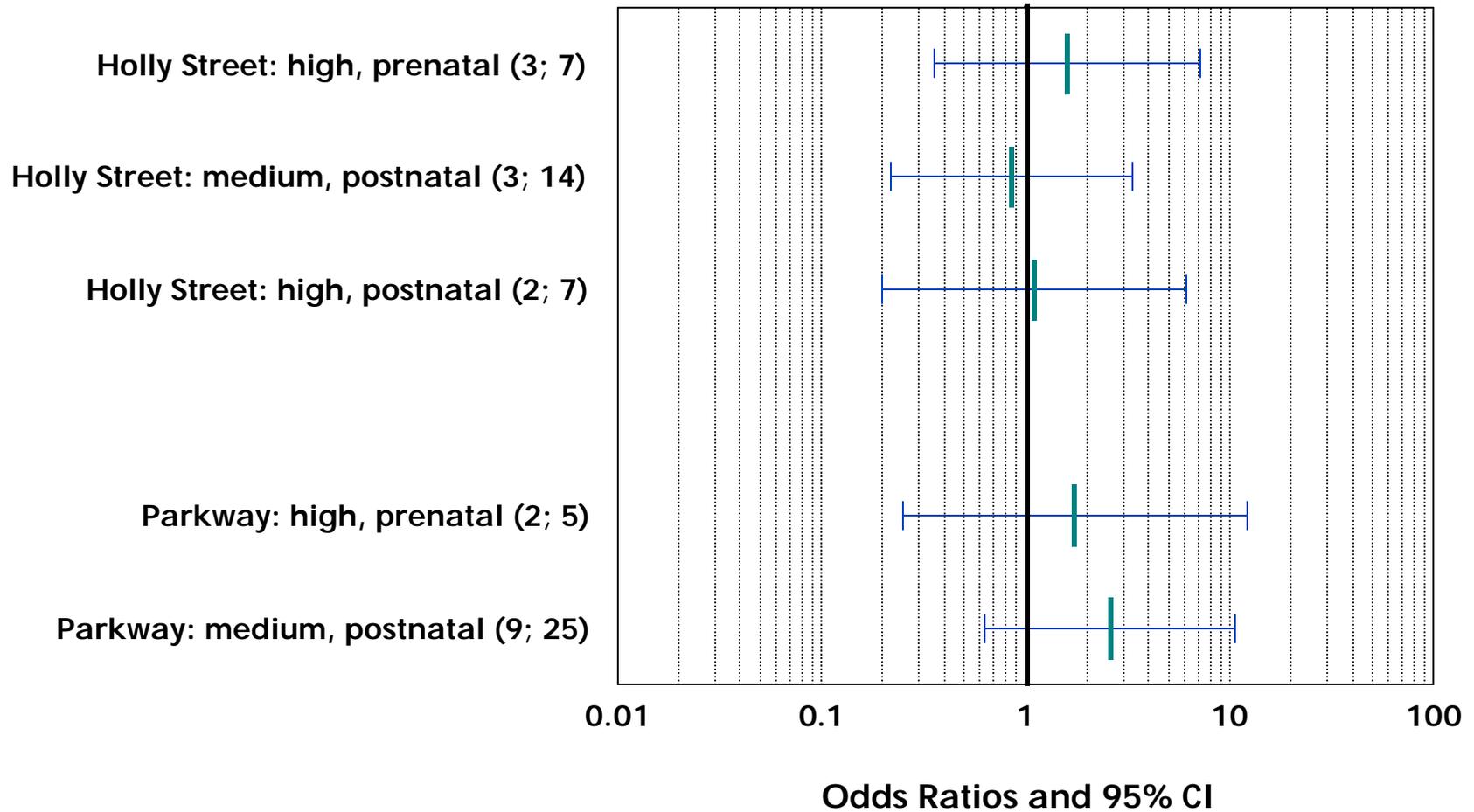
Leukemia: Diagnosis Ages 0 to 19
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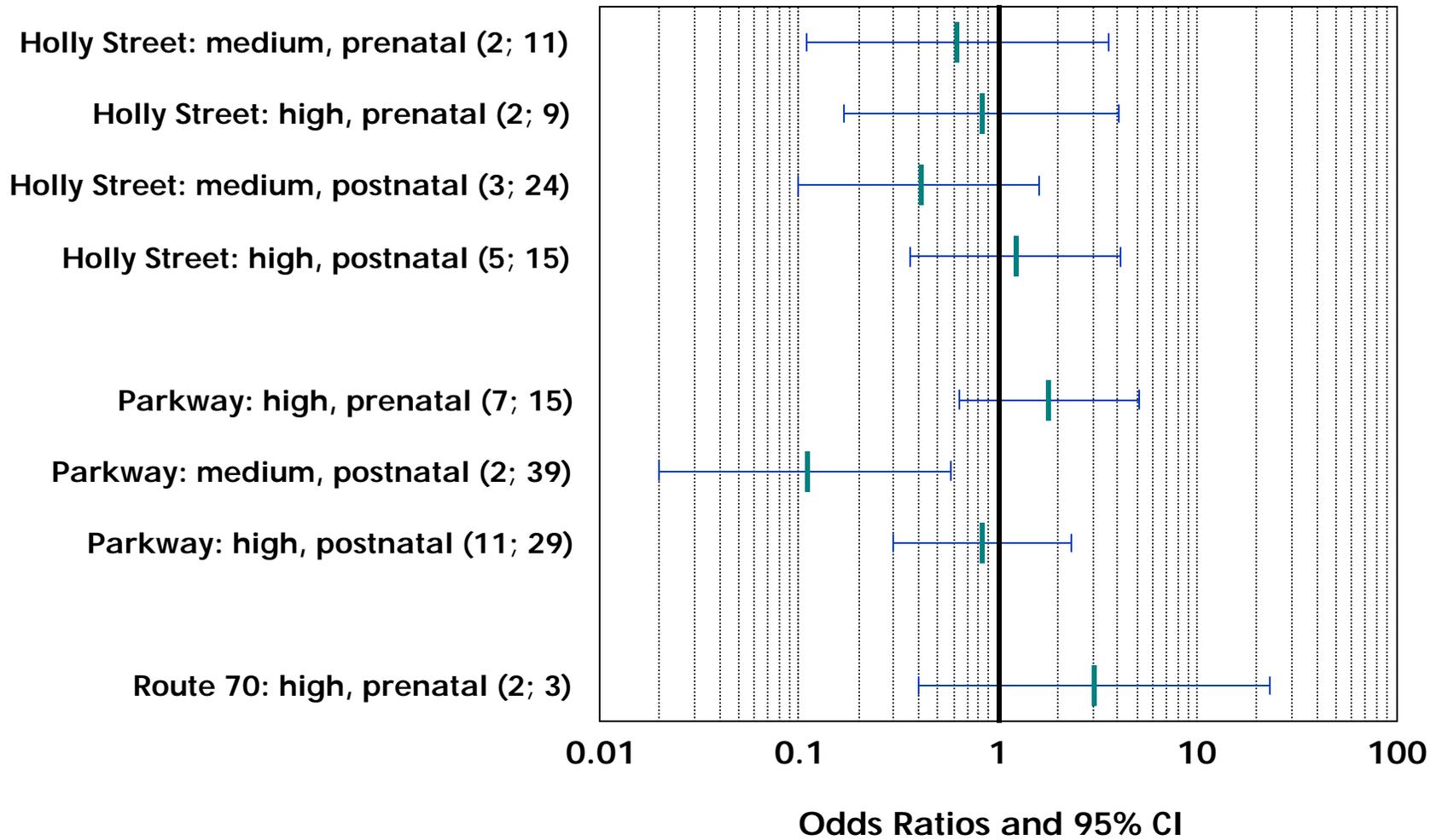
**Brain and Central Nervous System Cancers: Diagnosis Ages 0 to 19
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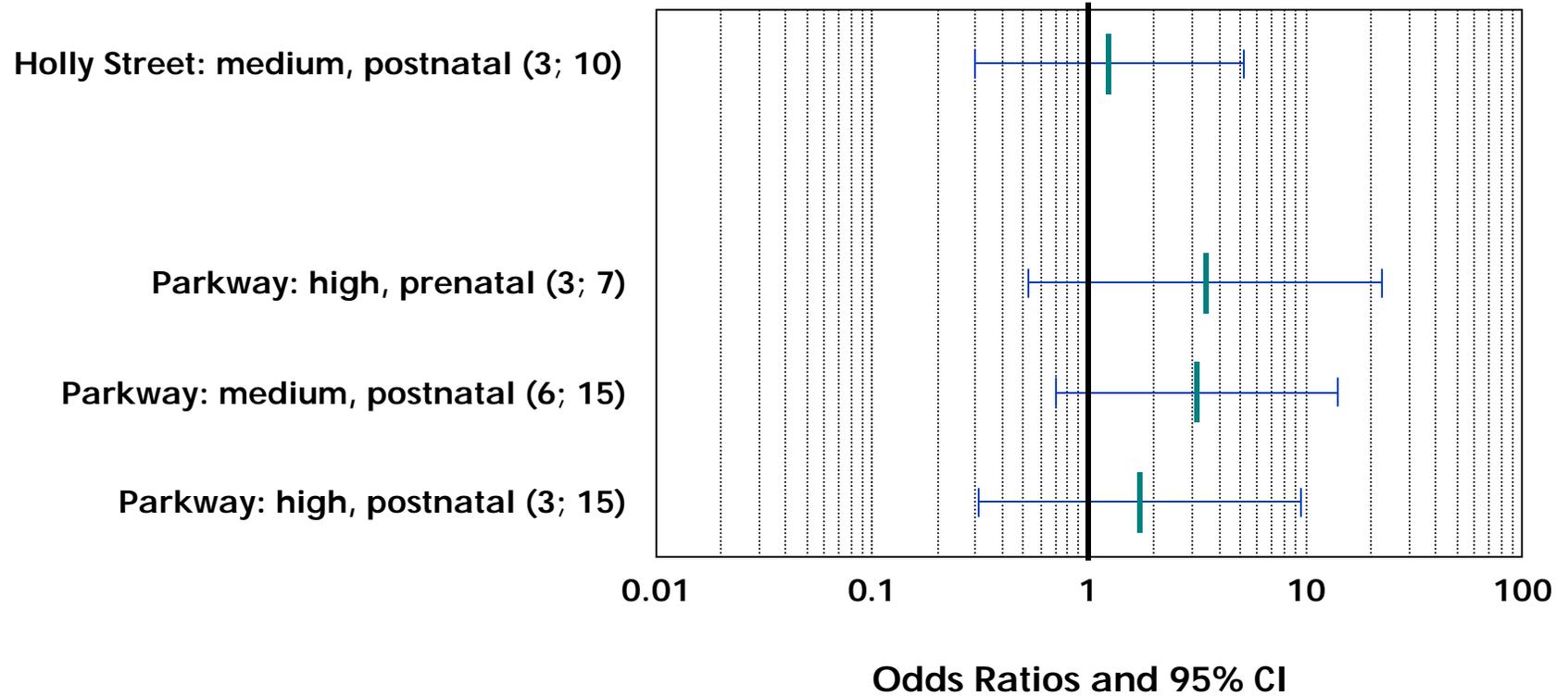
Leukemia: Diagnosis Ages 0 to 19
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Leukemia: Diagnosis Ages 0 to 19
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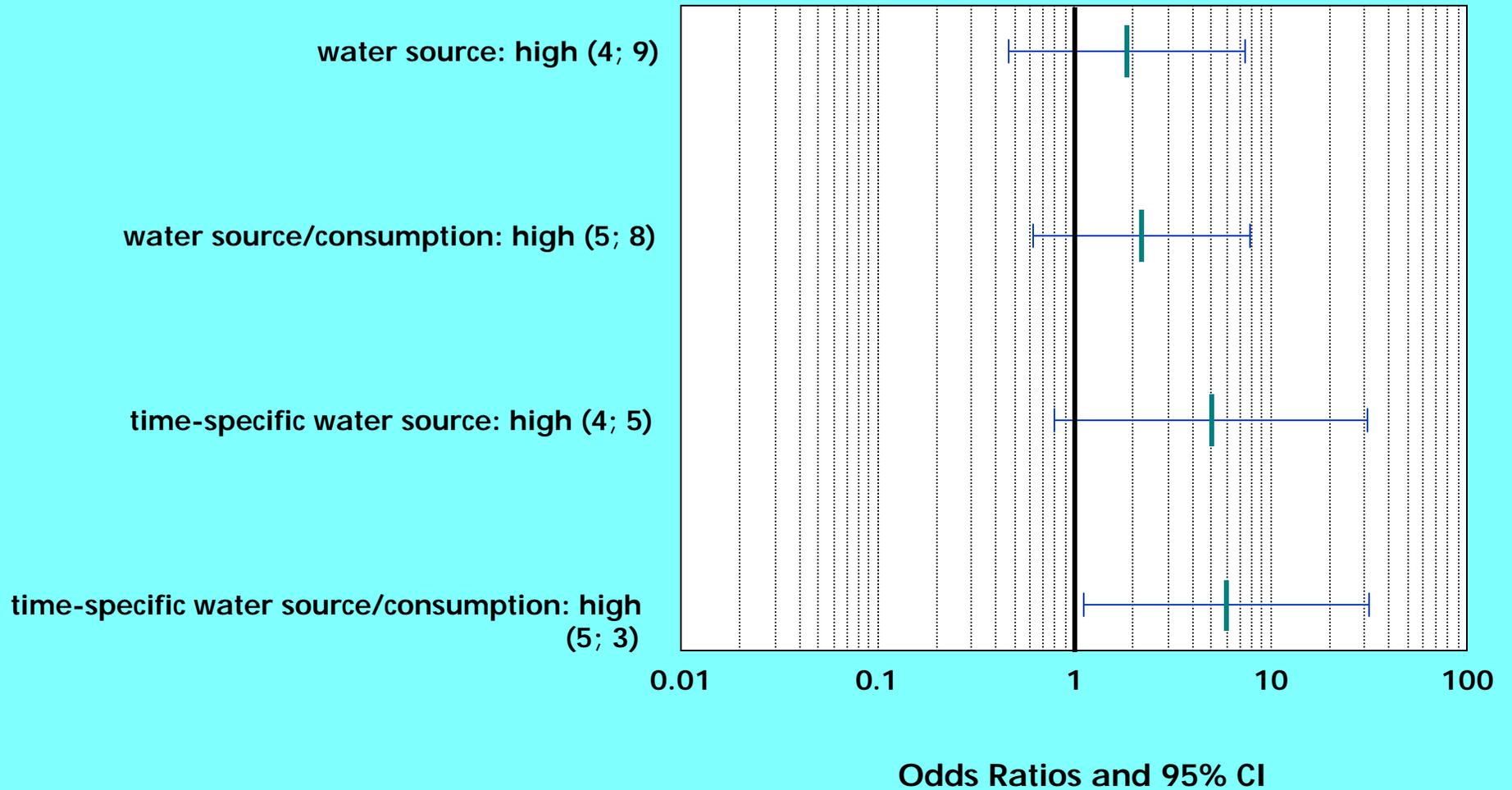


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Leukemia: Diagnosis Ages 0 to 19
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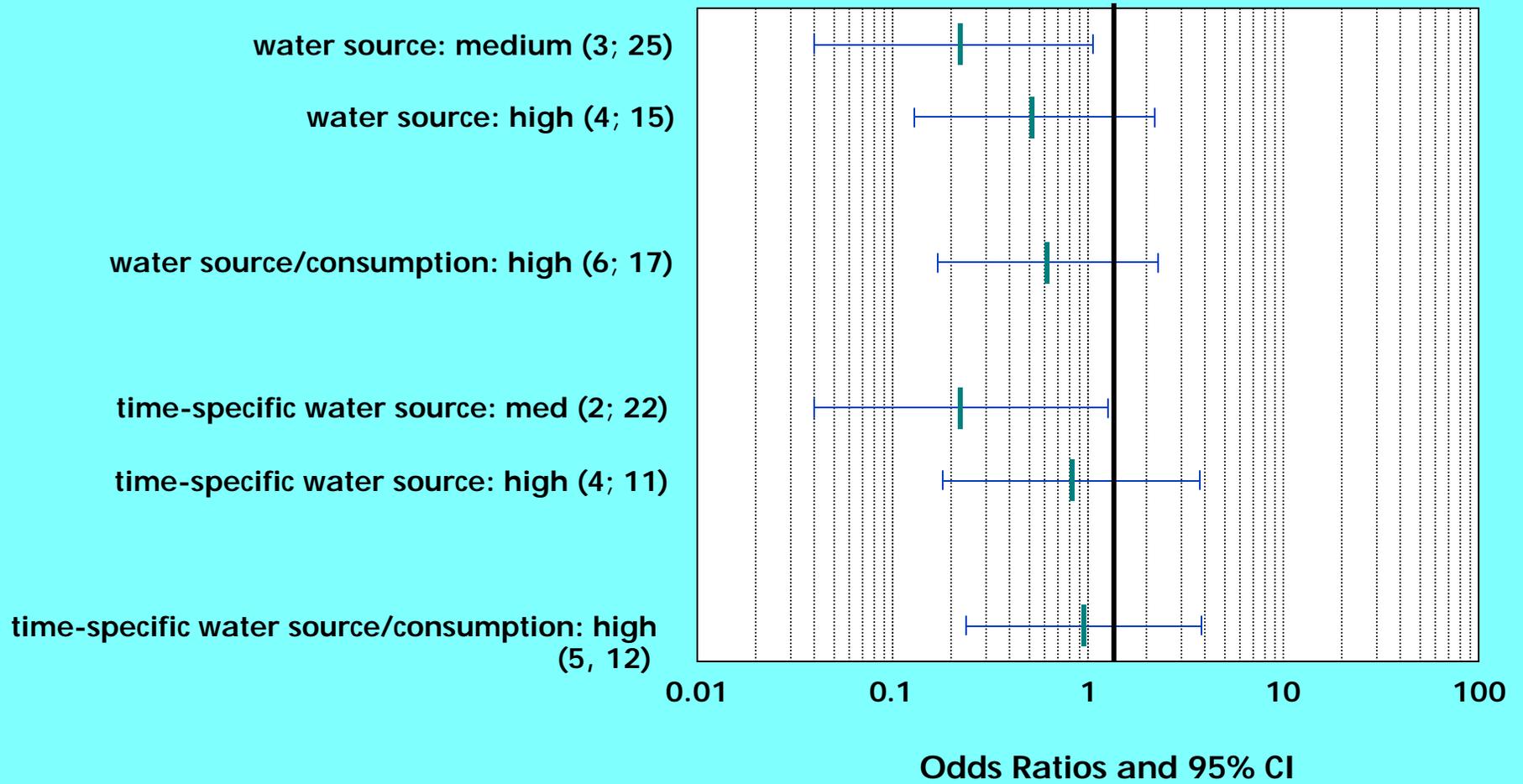
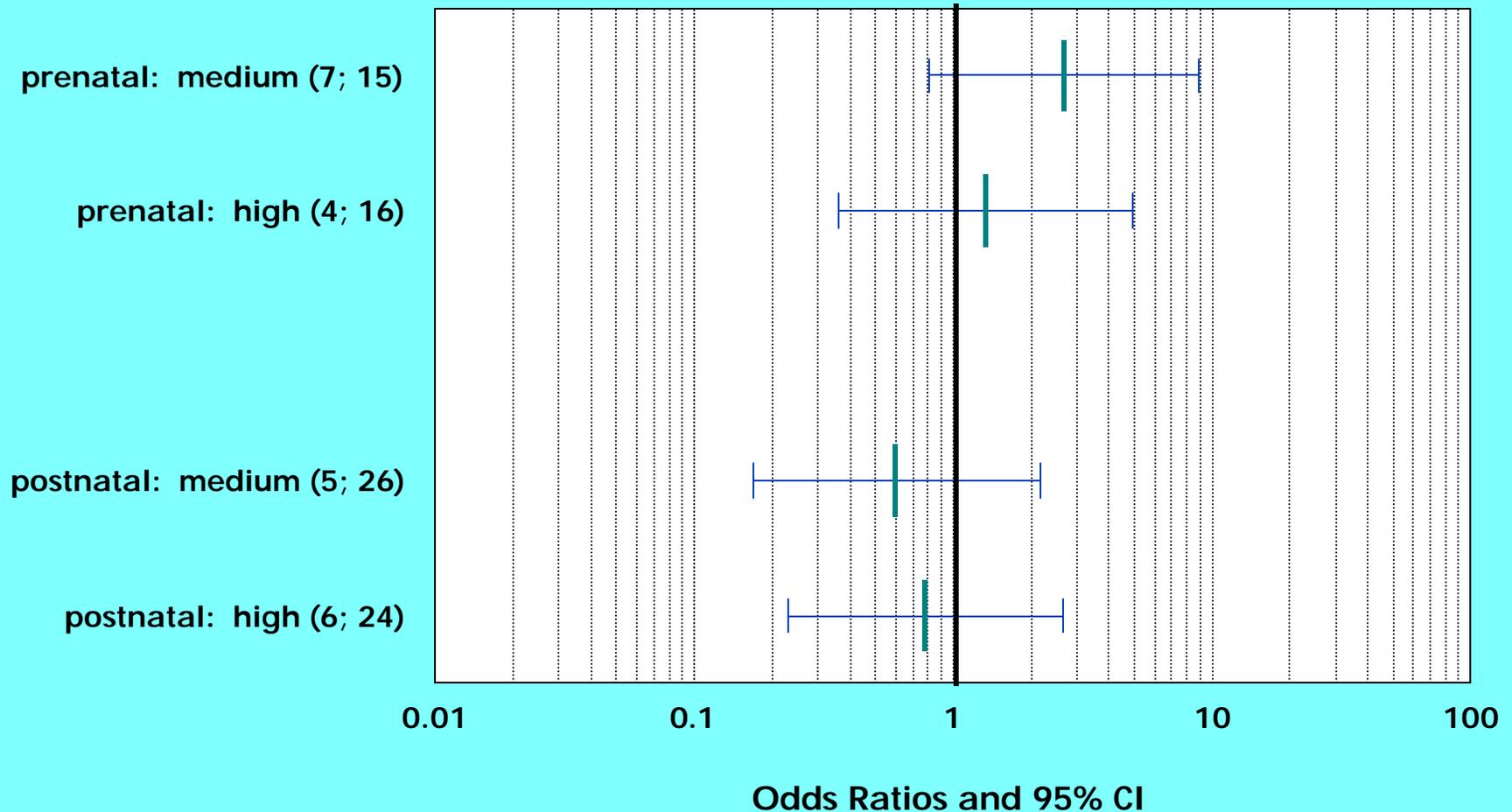


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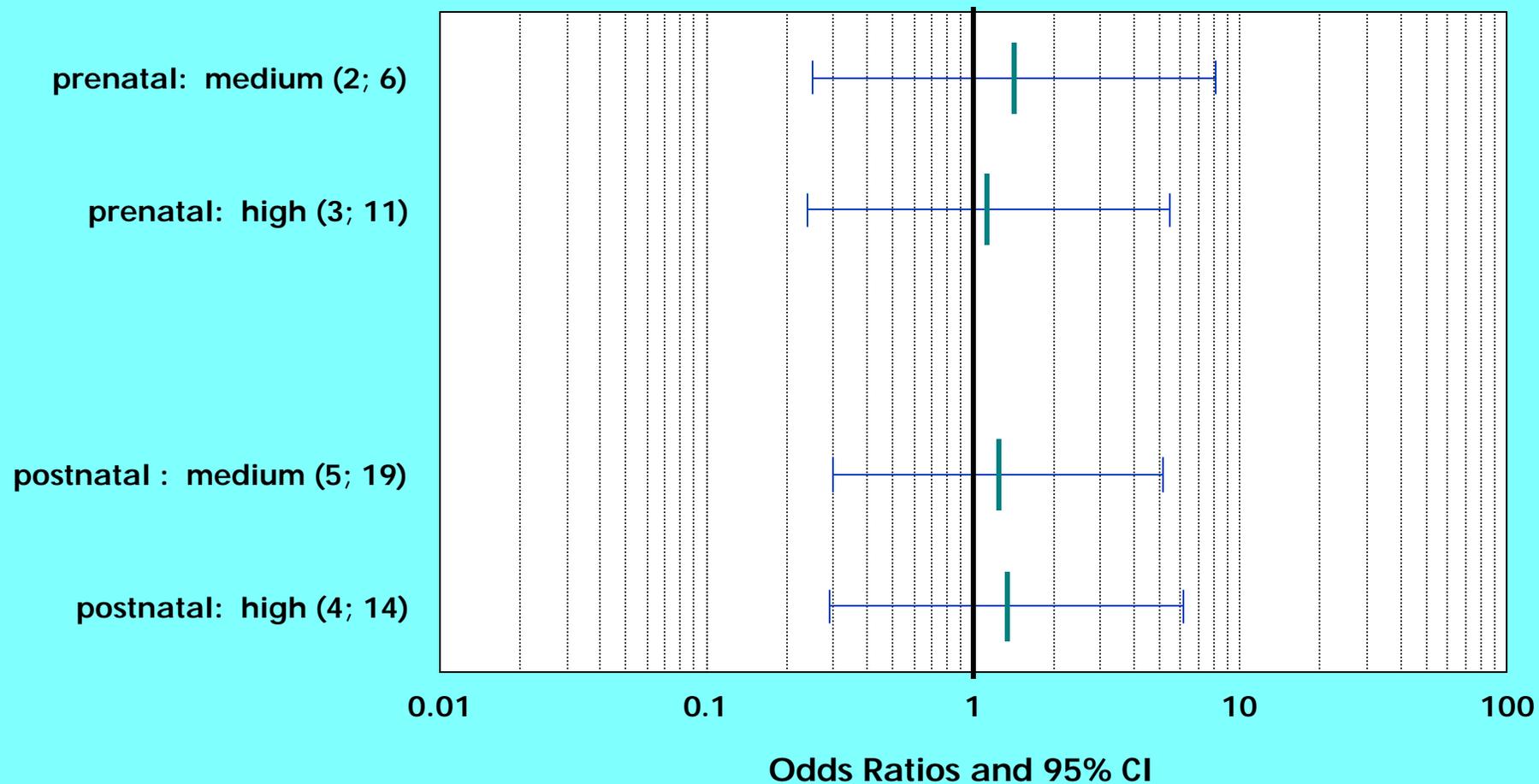
Leukemia: Diagnosis Ages 0 to 19, Prenatal and Postnatal Time Periods
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Data from Table 16b medium: 1.00 - 2.17 relative air impact units; high: >2.17 relative air impact units

Figure 7b: Interview Study Ciba-Geigy Airborne Air Exposure

Brain and Central Nervous System Cancers:
Diagnosis Ages 0 to 19, Prenatal and Postnatal Time Periods
(exposed cases; exposed controls)

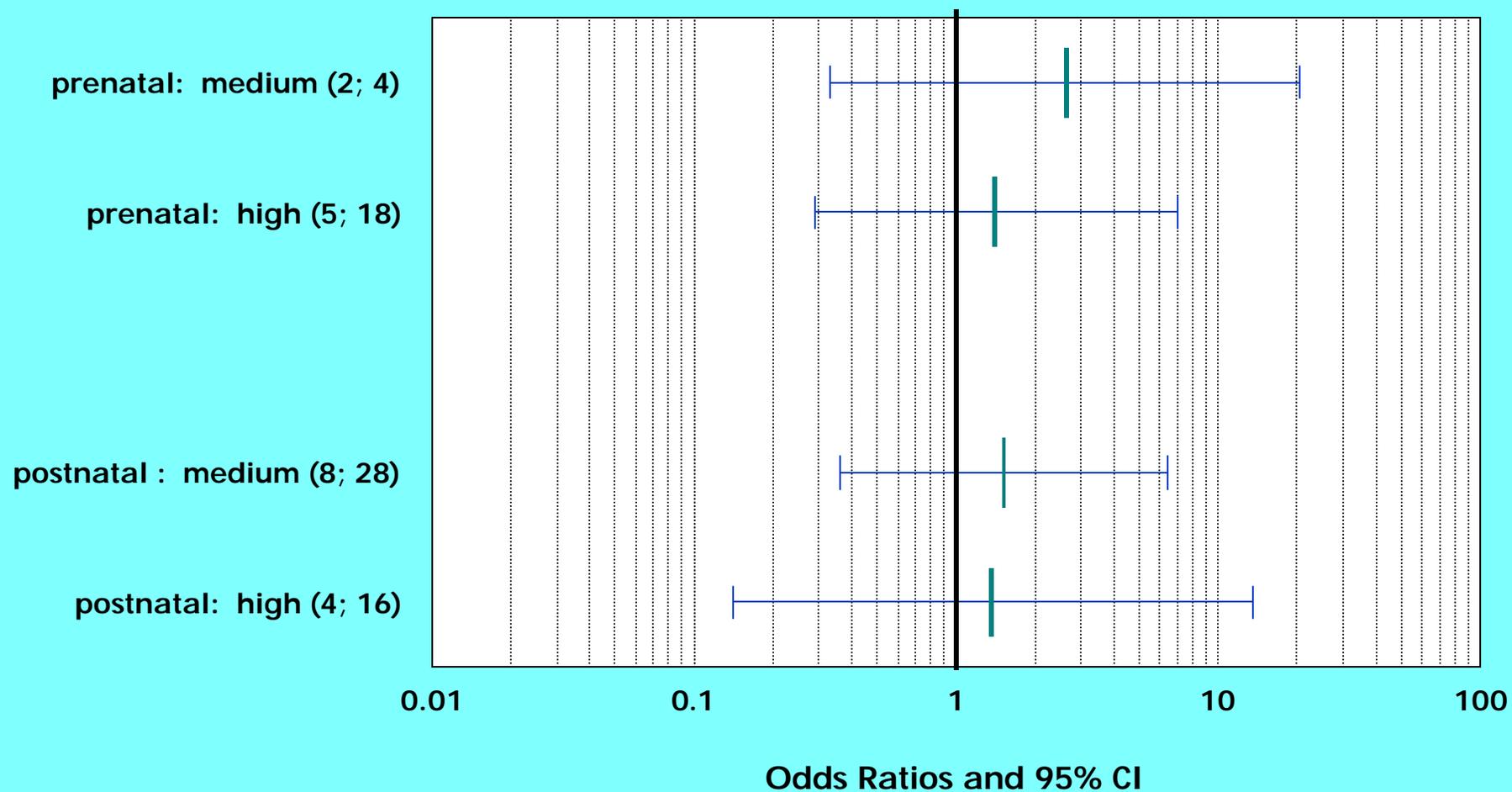


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medium: 1.00 - 2.17 relative air impact units; high: >2.17 relative air impact units

Figure 8a: Interview Study Oyster Creek Airborne Air Exposure

Leukemia: Diagnosis Ages 0 to 19, Prenatal and Postnatal Time Periods
(exposed cases; exposed controls)

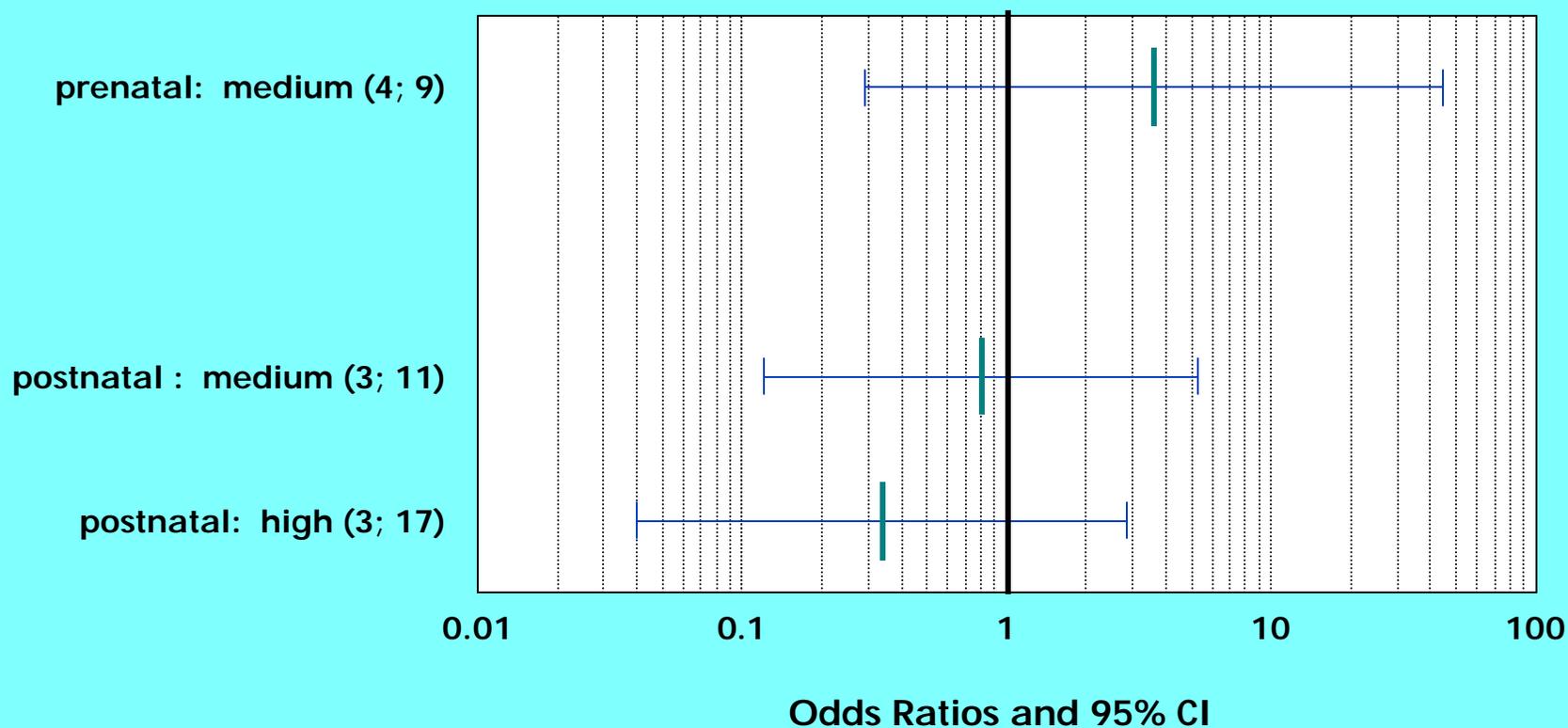


Data from Table 16b

medium: 0.80 - 0.27 fCi/m^3 ; high: $>0.27 fCi/m^3$

Figure 8b: Interview Study Oyster Creek Airborne Air Exposure

Brain and Central Nervous System Cancers:
Diagnosis Ages 0 to 19, Prenatal and Postnatal Time Periods
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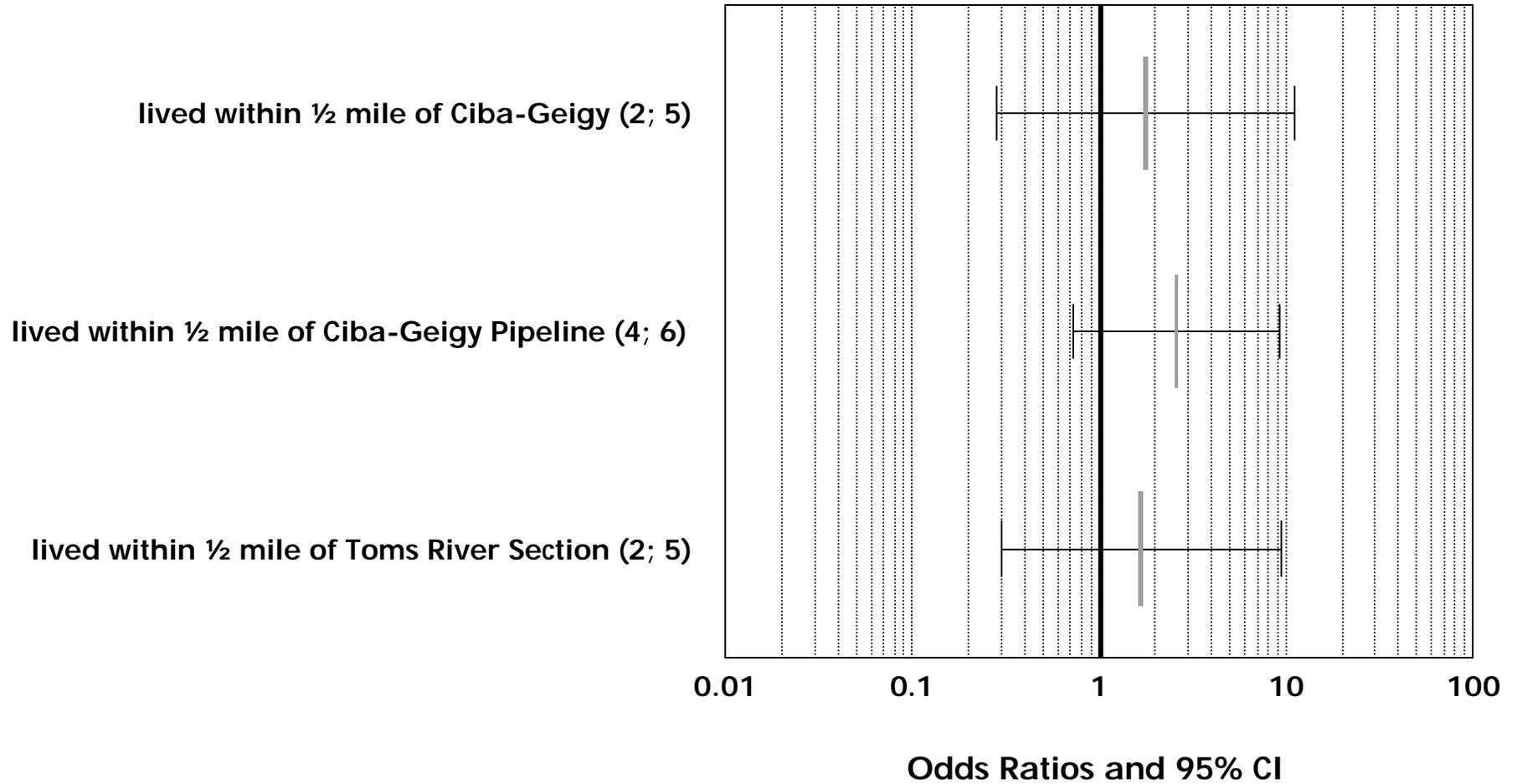


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medium: 0.80 - 0.27 fCi/m^3 ; high: >0.27 fCi/m^3

Figure 9a: Interview Study Proximity to Sites of Concern

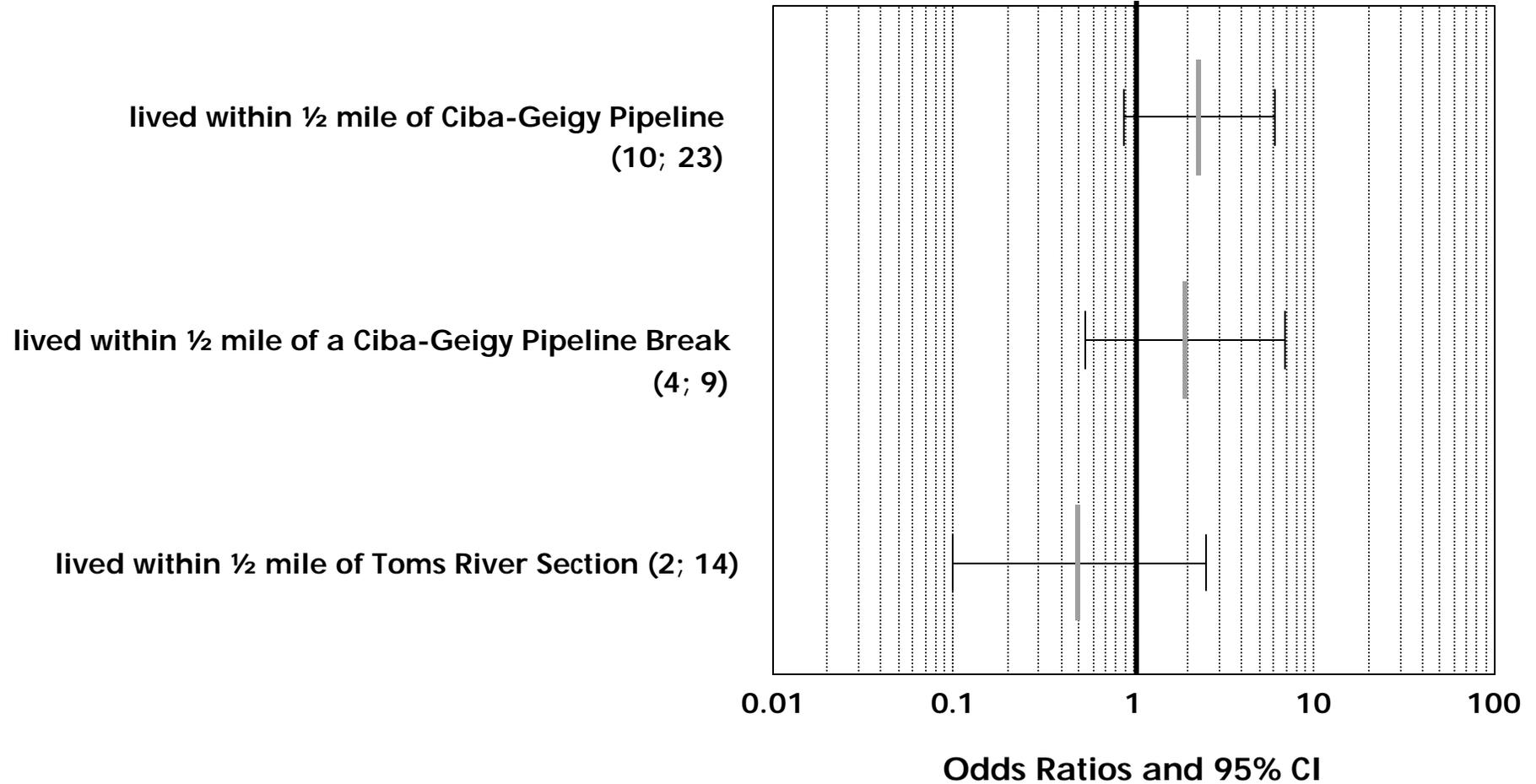
Leukemia: Diagnosis Ages 0 - 19, Prenatal Time Period
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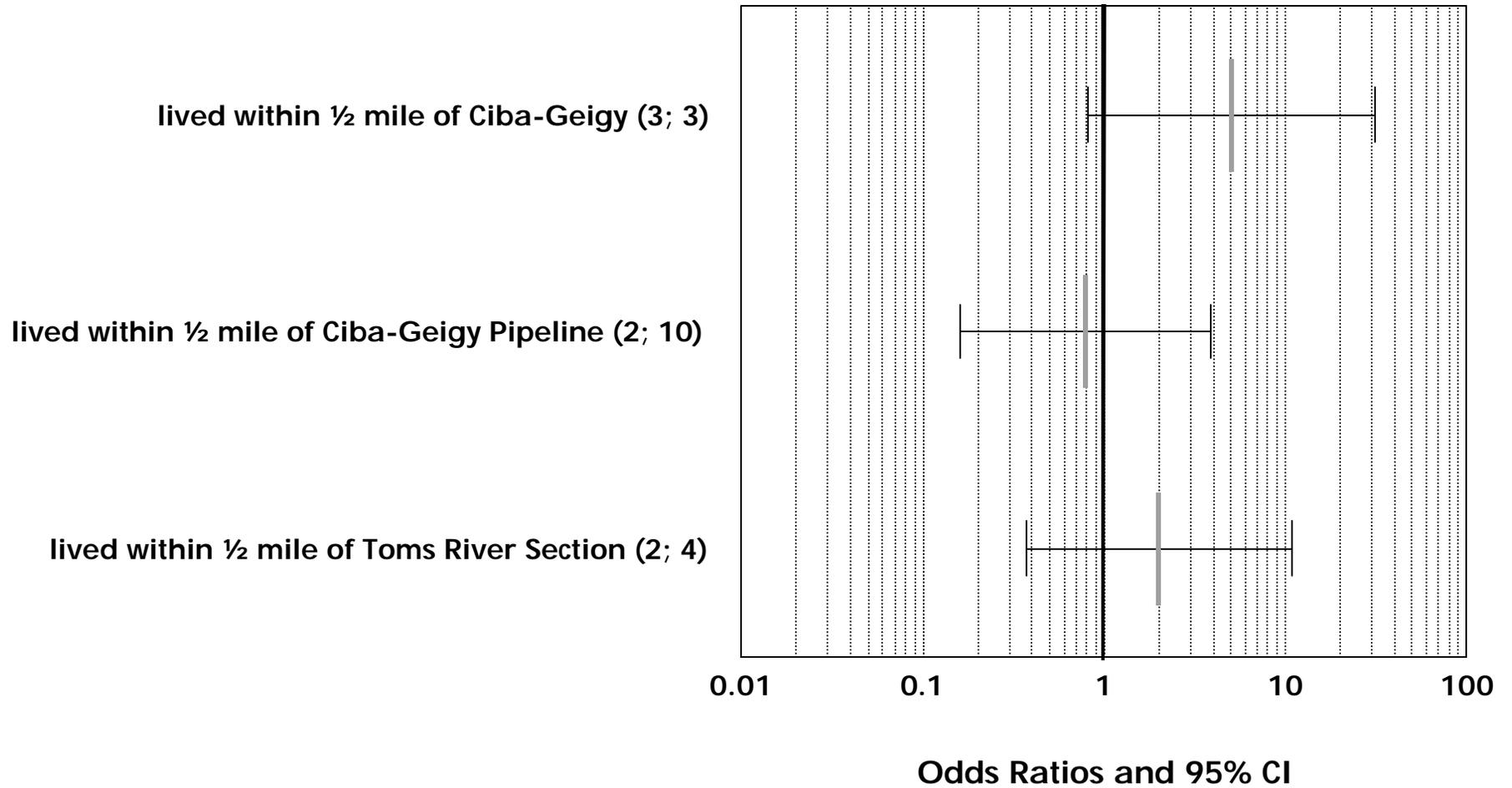
Leukemia: Diagnosis Ages 0 - 19, Postnatal Time Period
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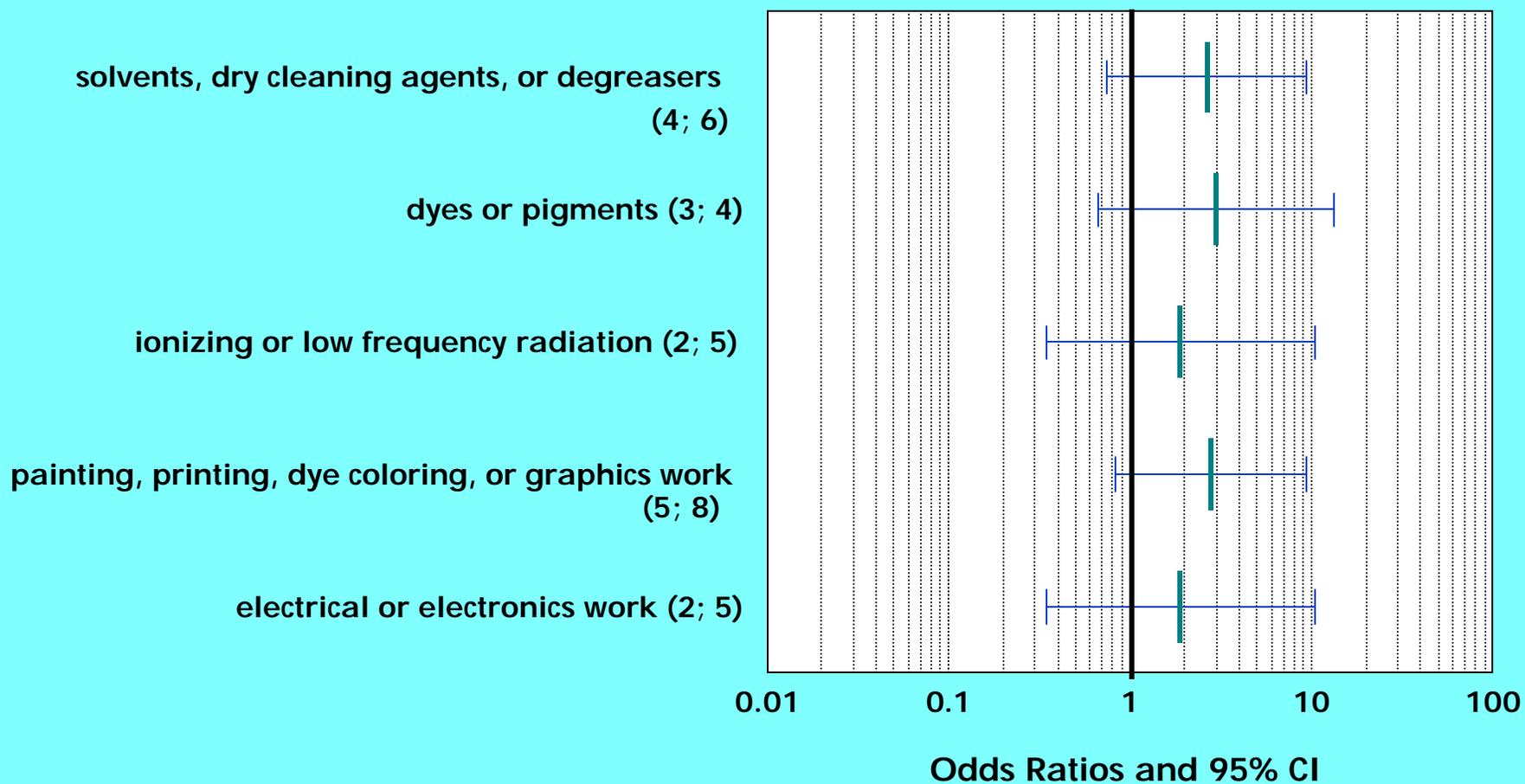
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Data from Table 19d

Figure 10a: Interview Study Maternal Occupation, IH Rating of Job Exposures and Activities

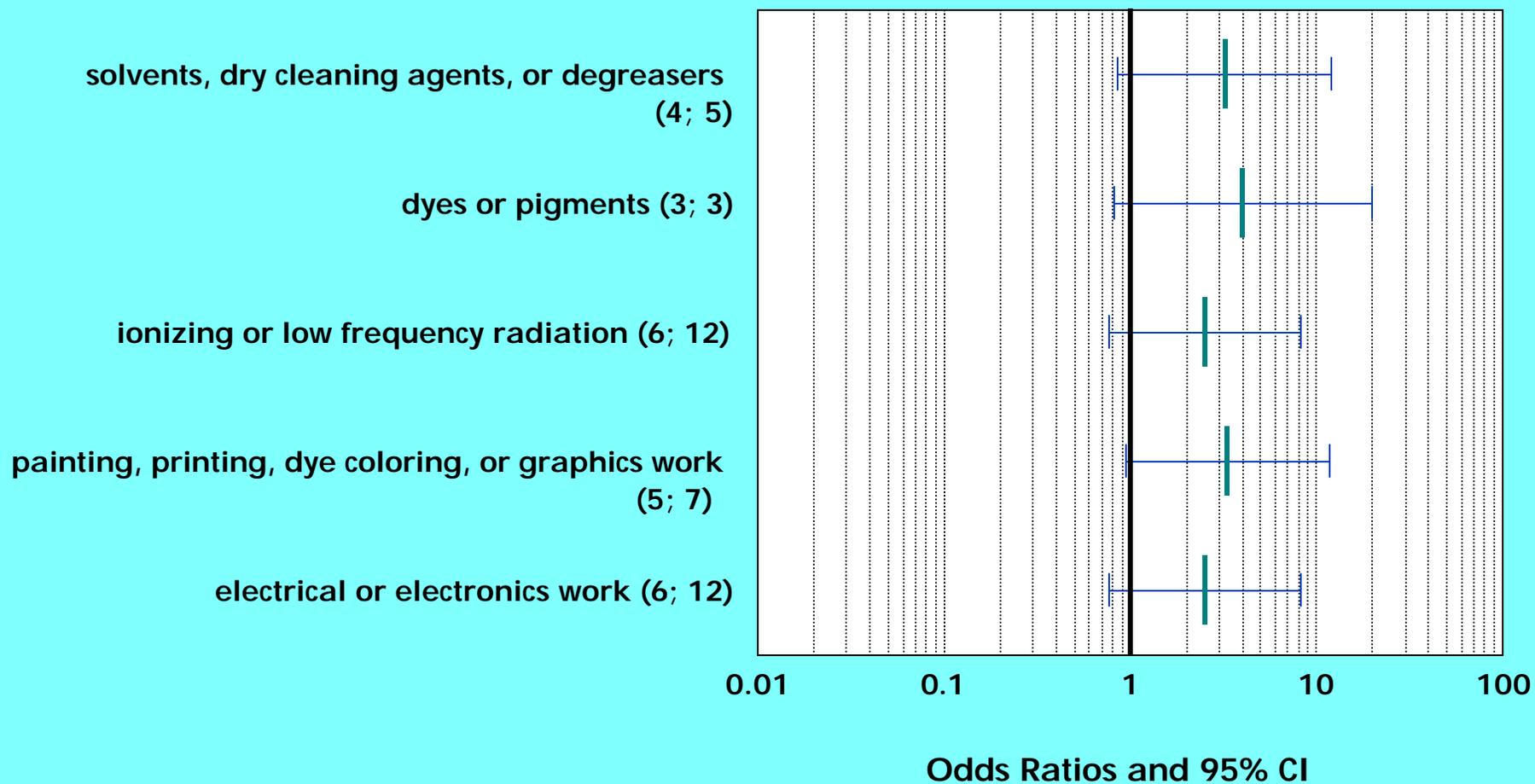
Leukemia: Diagnosis Ages 0 - 19, Prenatal Time Period
(exposed cases; exposed controls)



Data from Table 26b

Figure 10b: Interview Study Maternal Occupation, IH Rating of Job Exposures and Activities

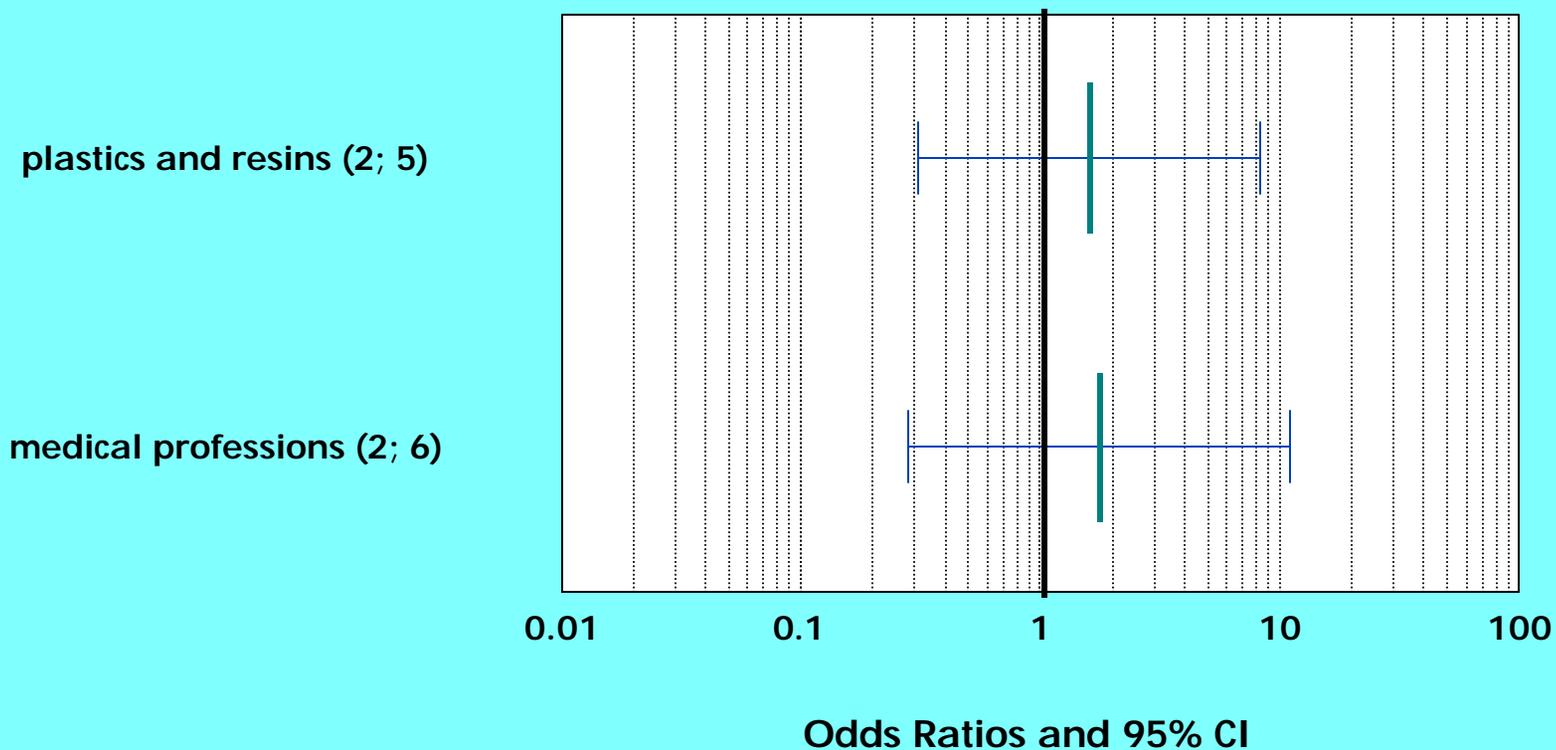
Leukemia: Diagnosis Ages 0 - 19, Postnatal Time Period
(exposed cases; exposed controls)



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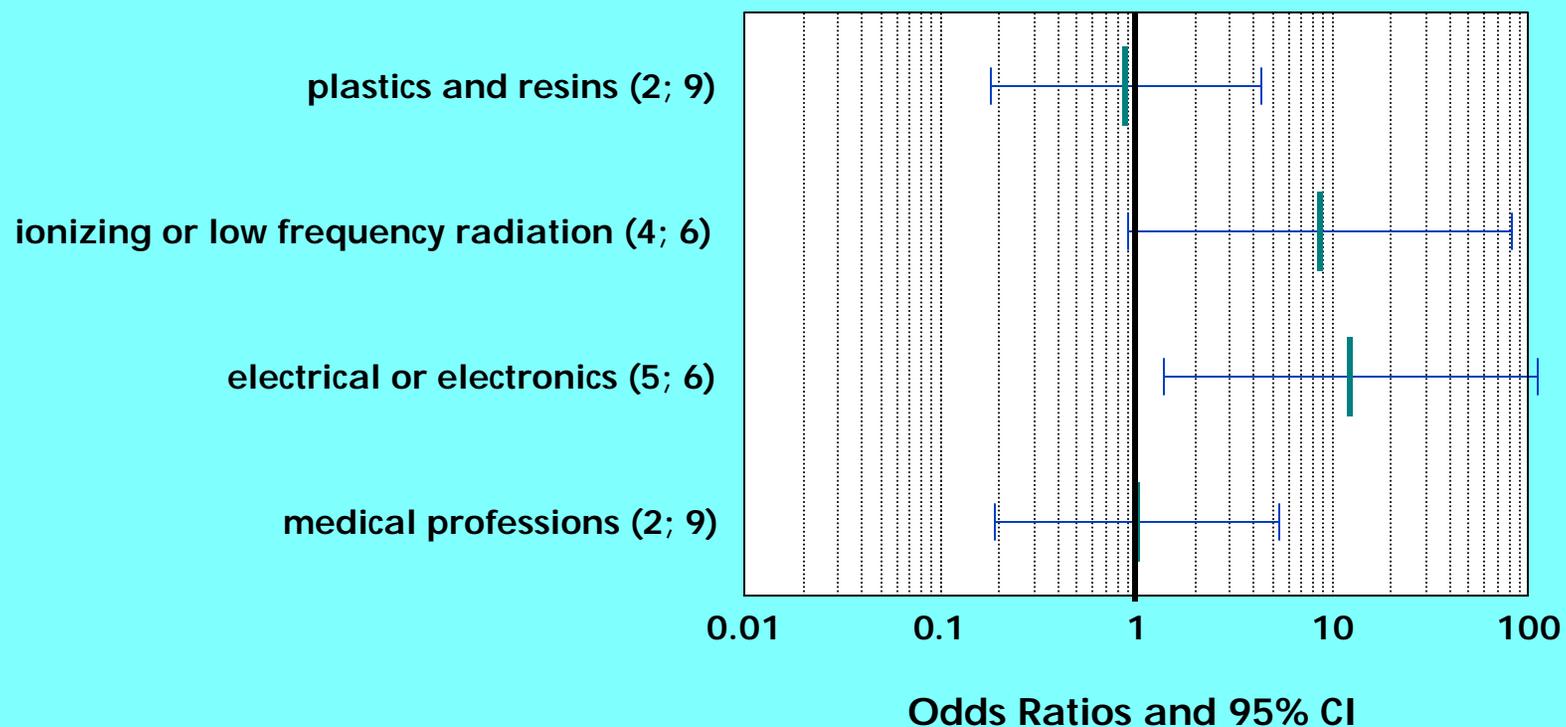
Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19, Prenatal Time Period
(exposed cases; exposed controls)



Data from Table 26d

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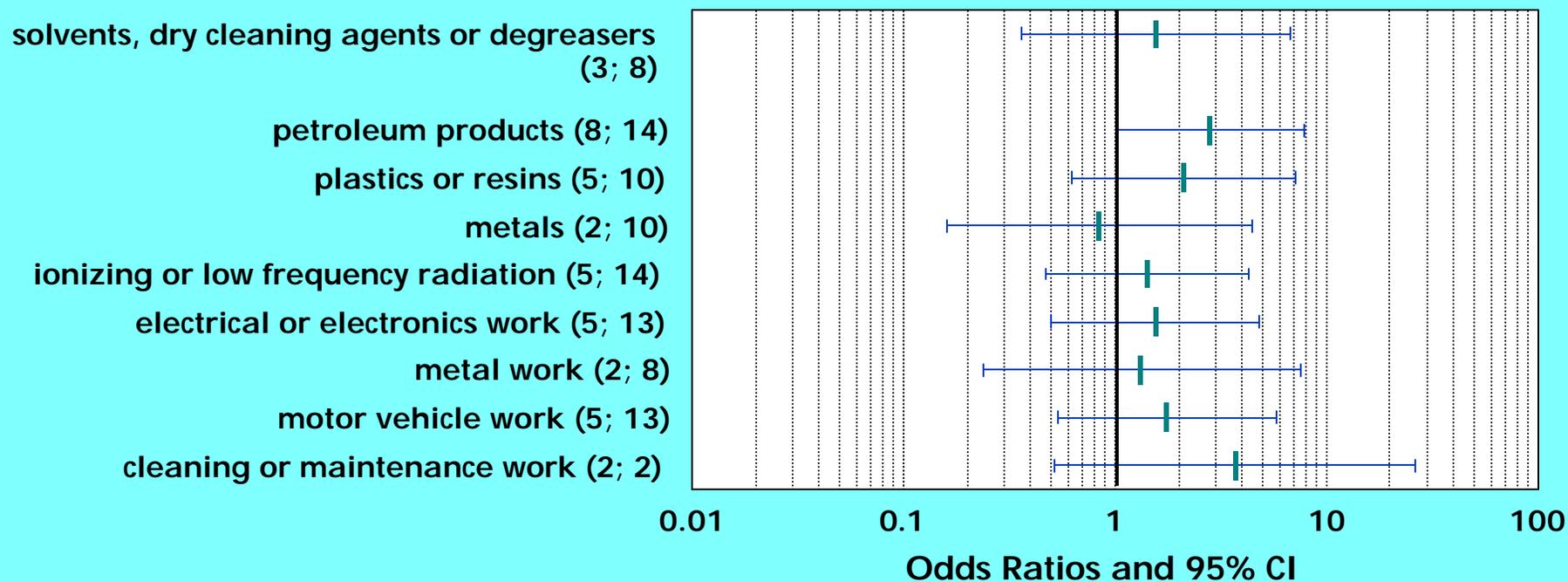
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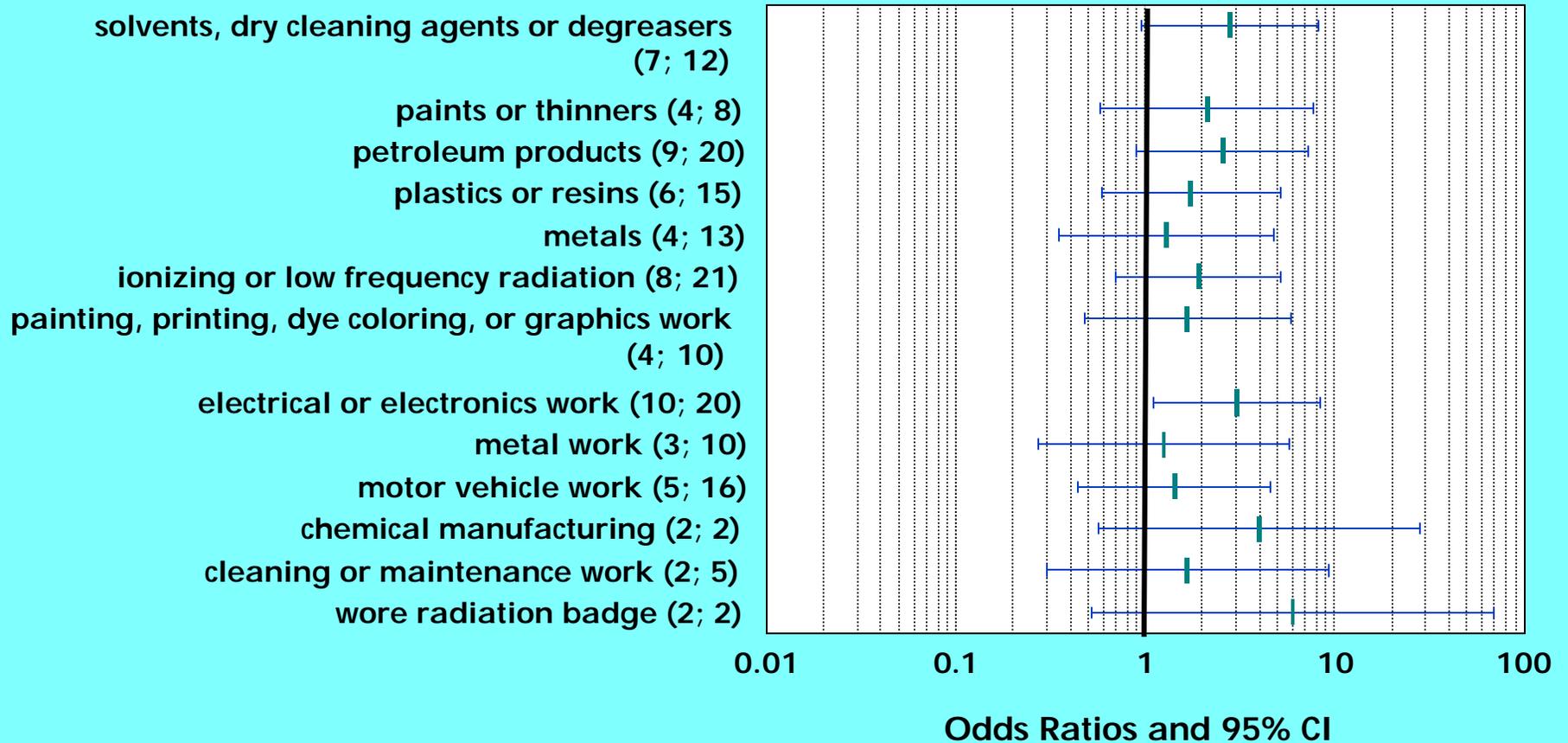
**Leukemia: Diagnosis Ages 0 - 19, Prenatal Time Period
(exposed cases; exposed controls)**



Data from Table 26b

Figure 10f: Interview Study Paternal Occupation, IH Rating of Job Exposures and Activities

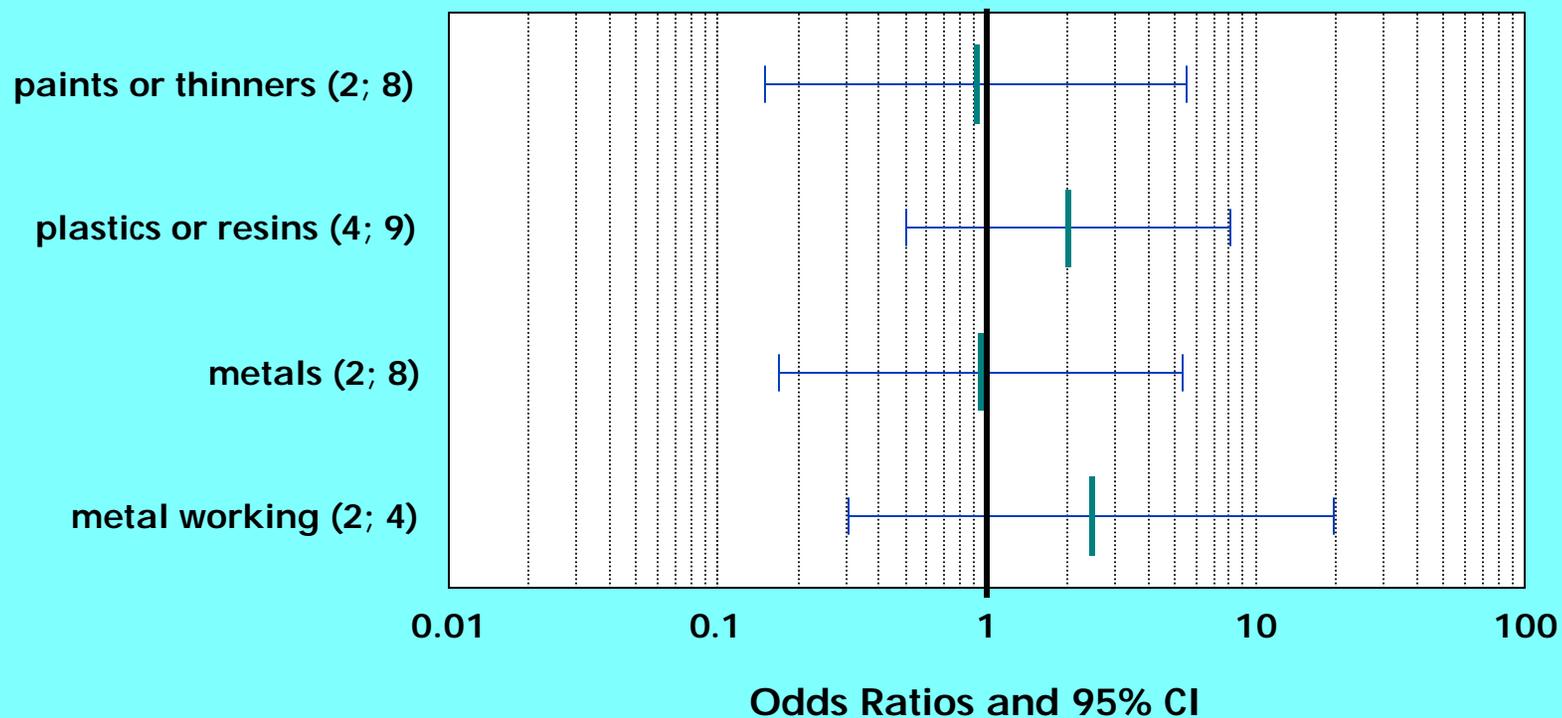
**Leukemia: Diagnosis Ages 0 - 19, Postnatal Time Period
(exposed cases; exposed controls)**



Data from Table 26b

Figure 10g: Interview Study Paternal Occupation, IH Rating of Job Exposures and Activities

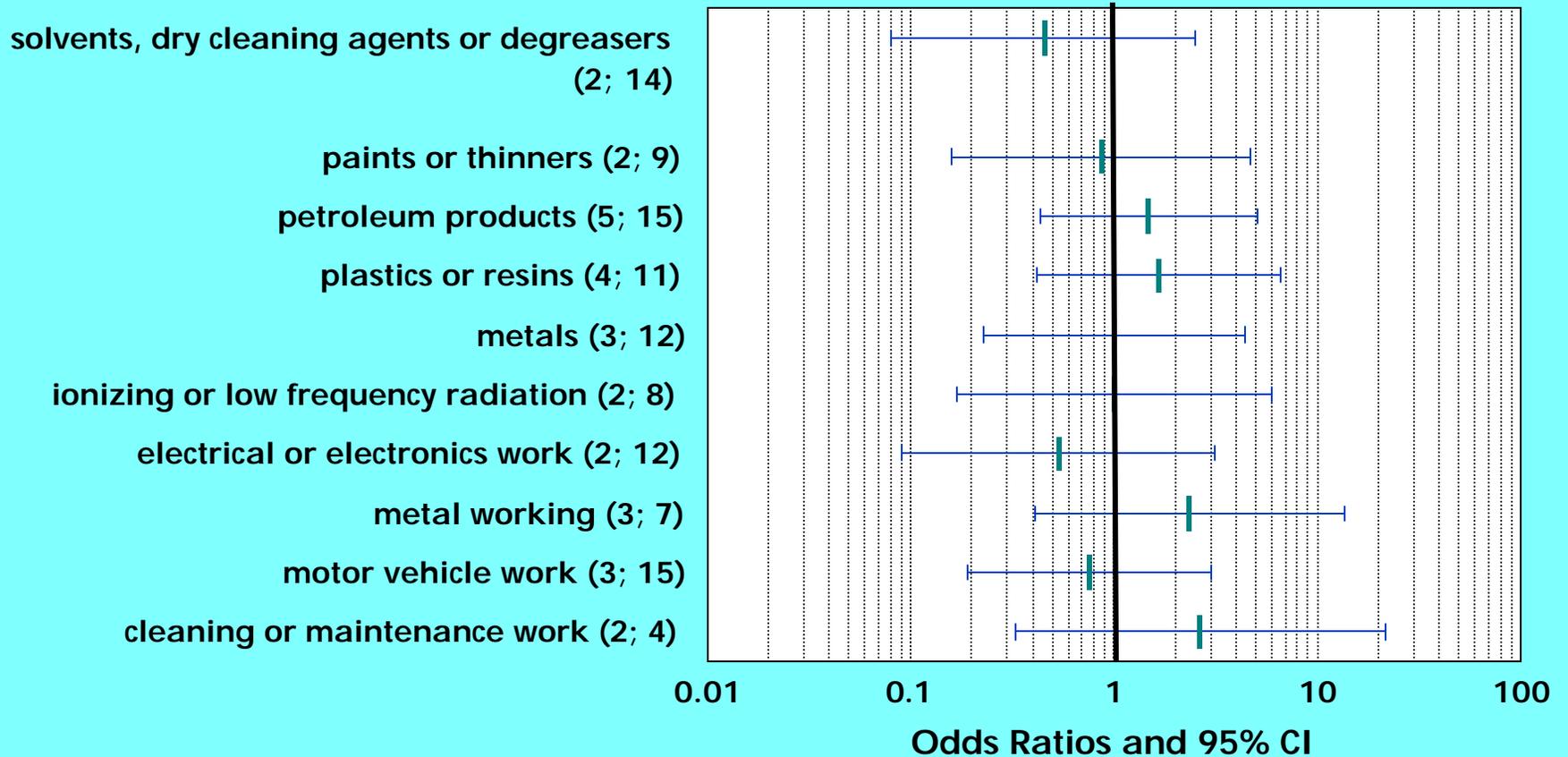
Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19, Prenatal Time Period
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Data from Table 26d

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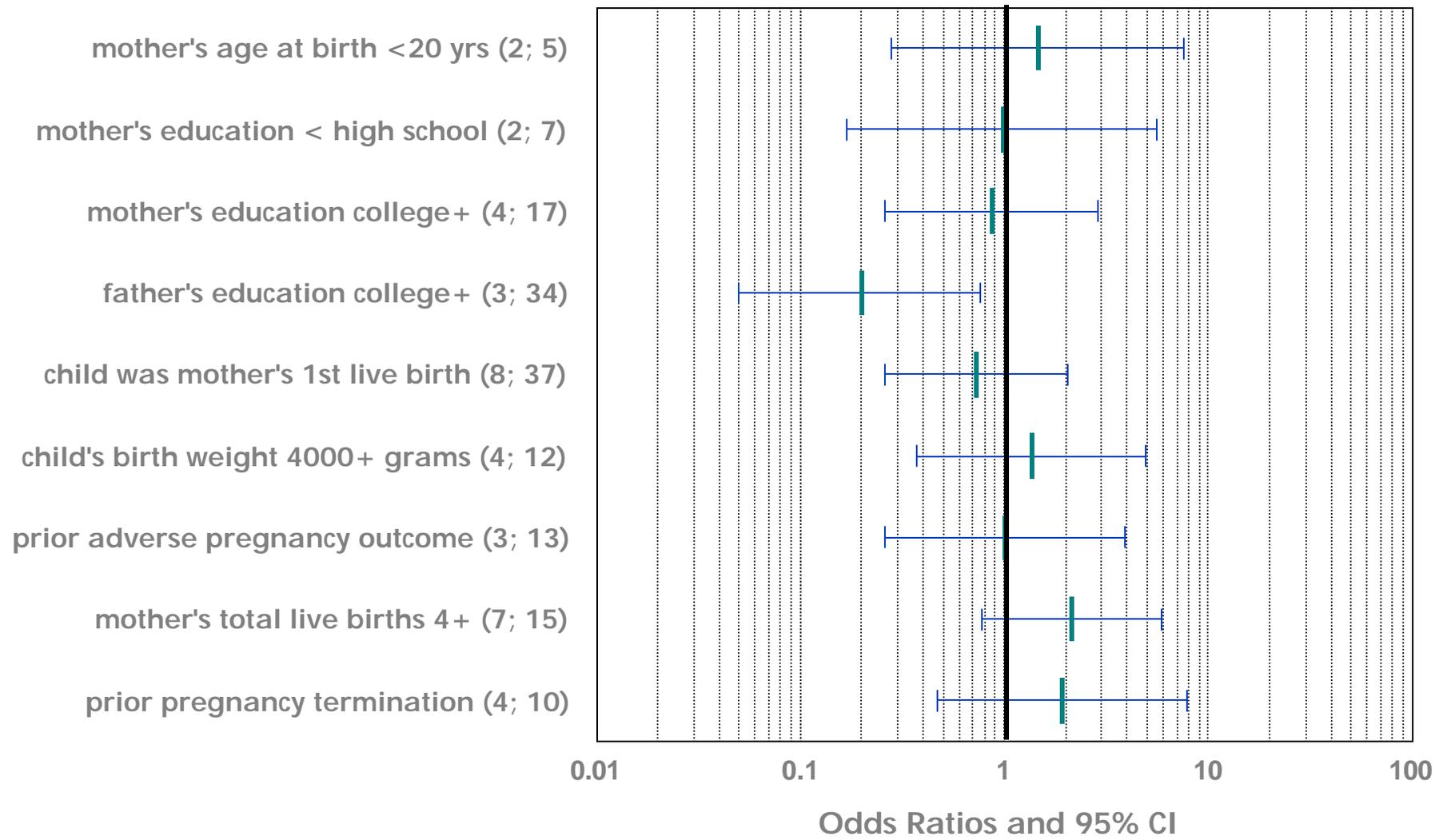
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(exposed cases; exposed controls)



Data from Table 26d

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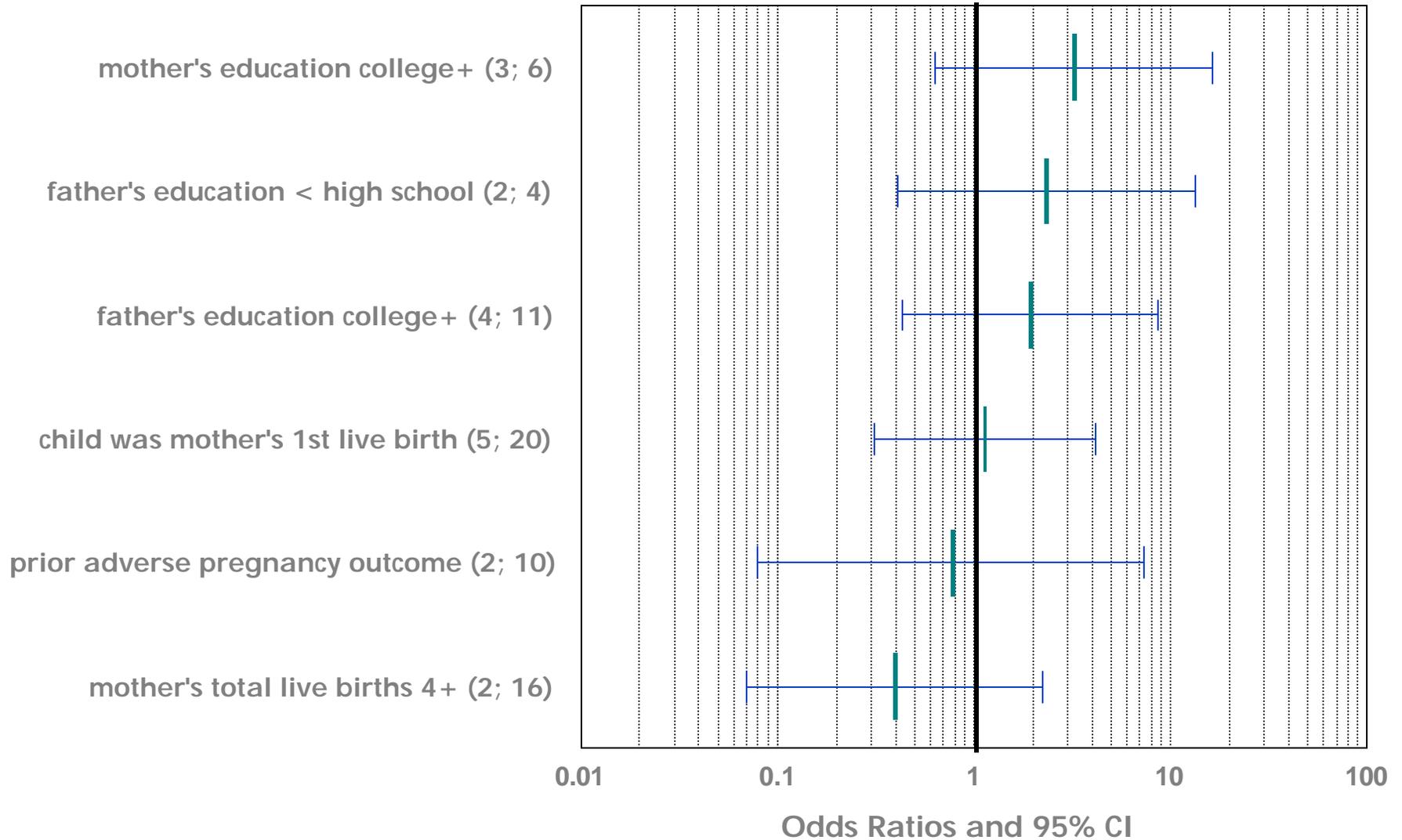
Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



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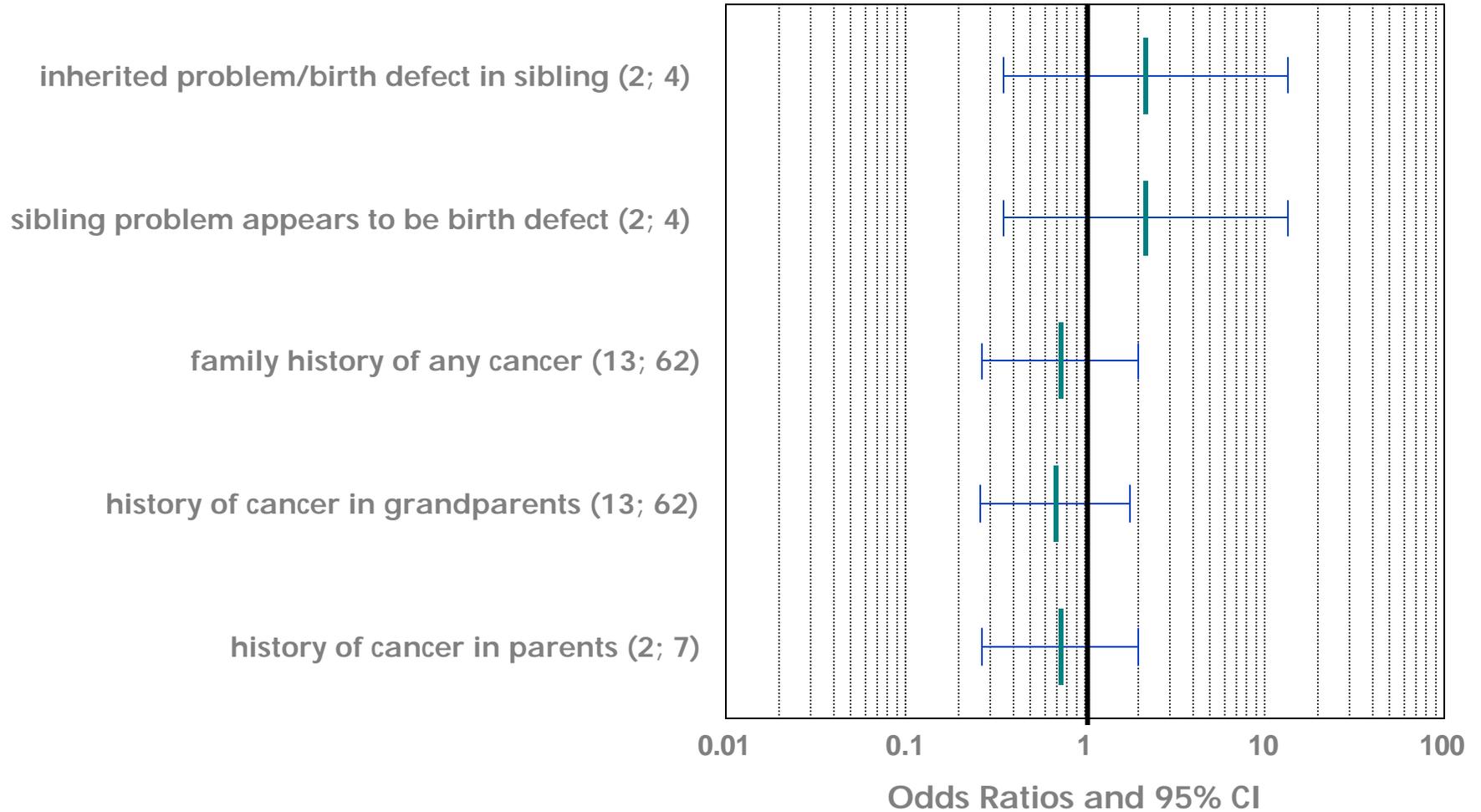
Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19
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Data from Table 28d

Figure 12a: Interview Study Family Medical History

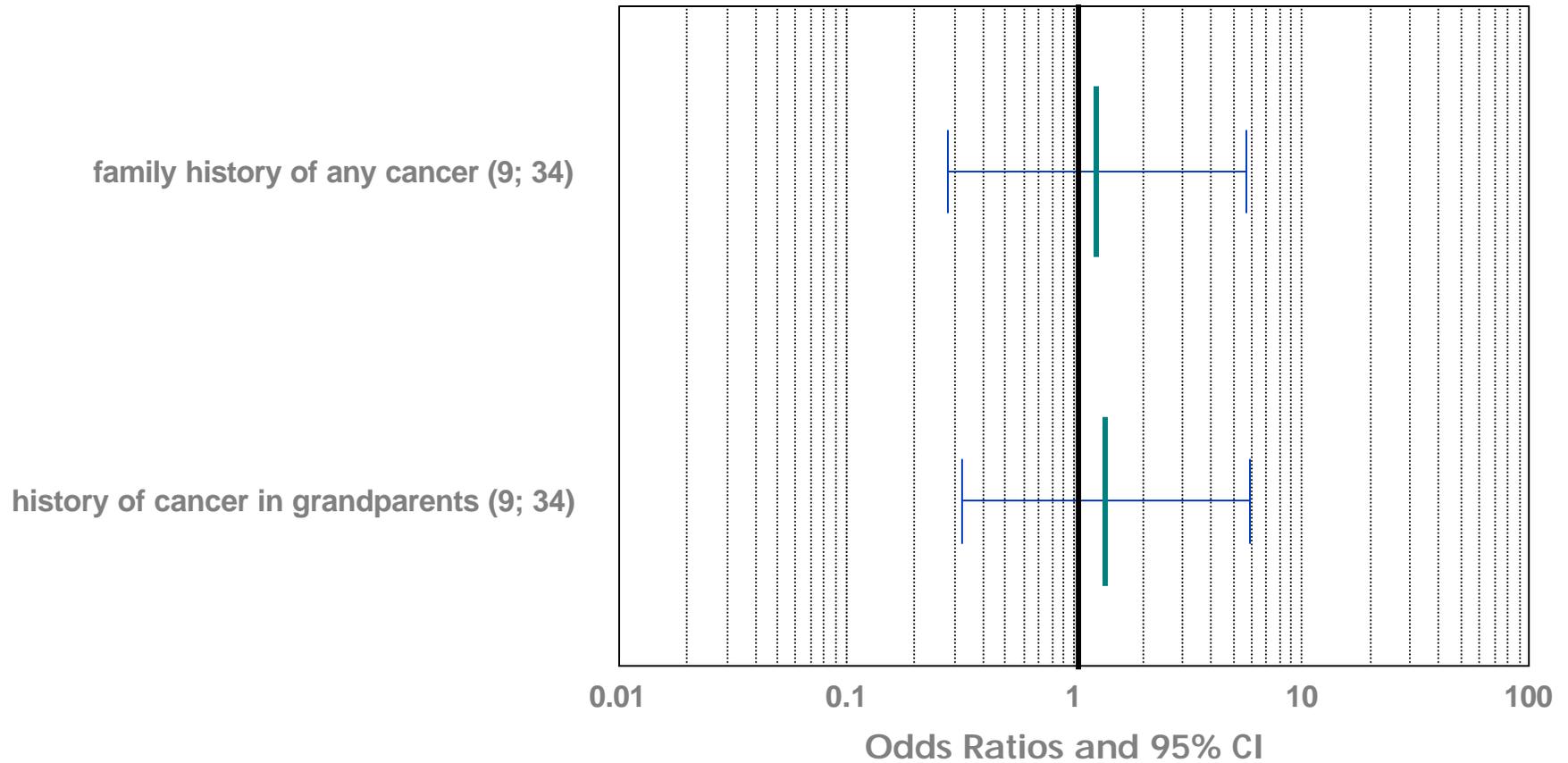
Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



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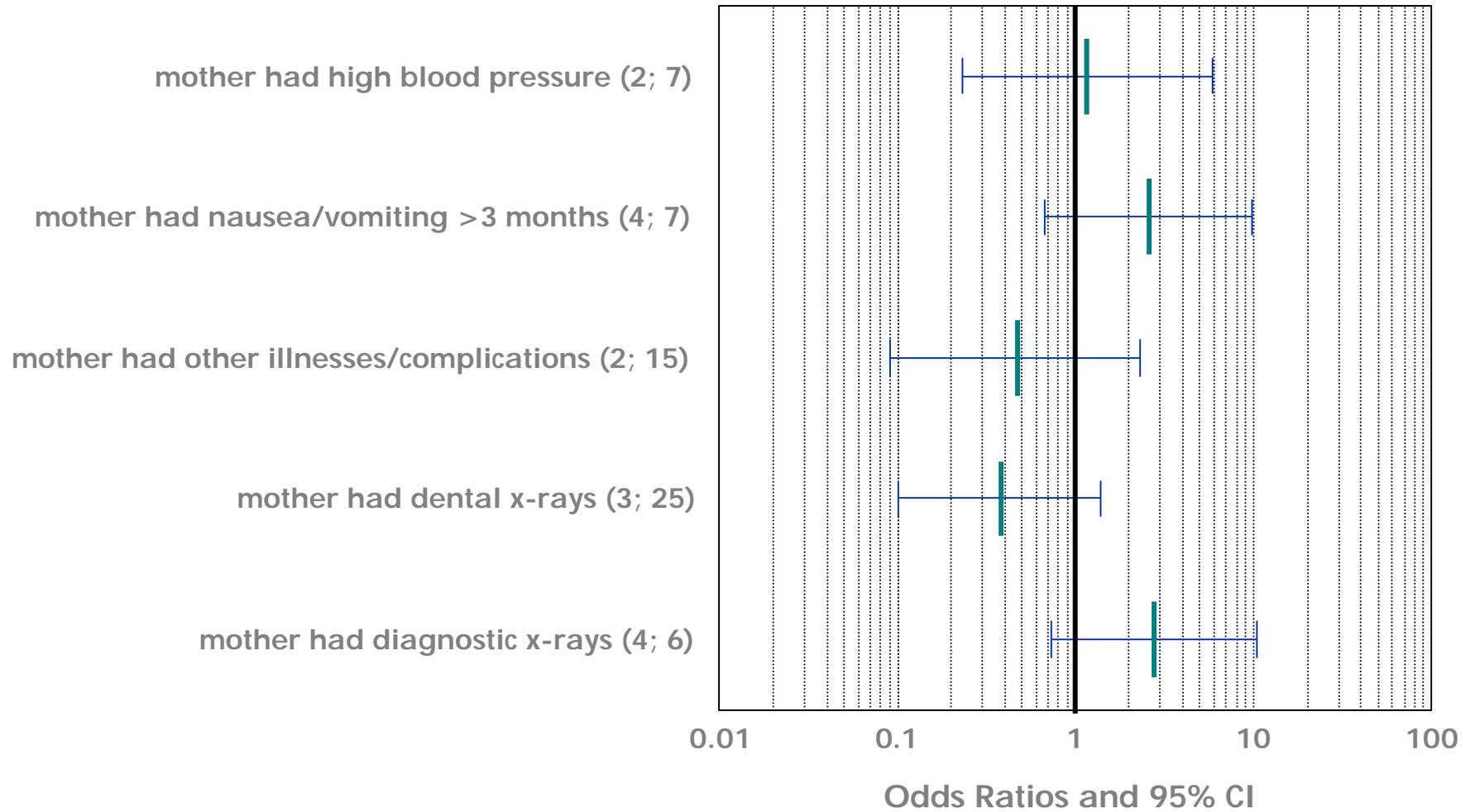
Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 30d

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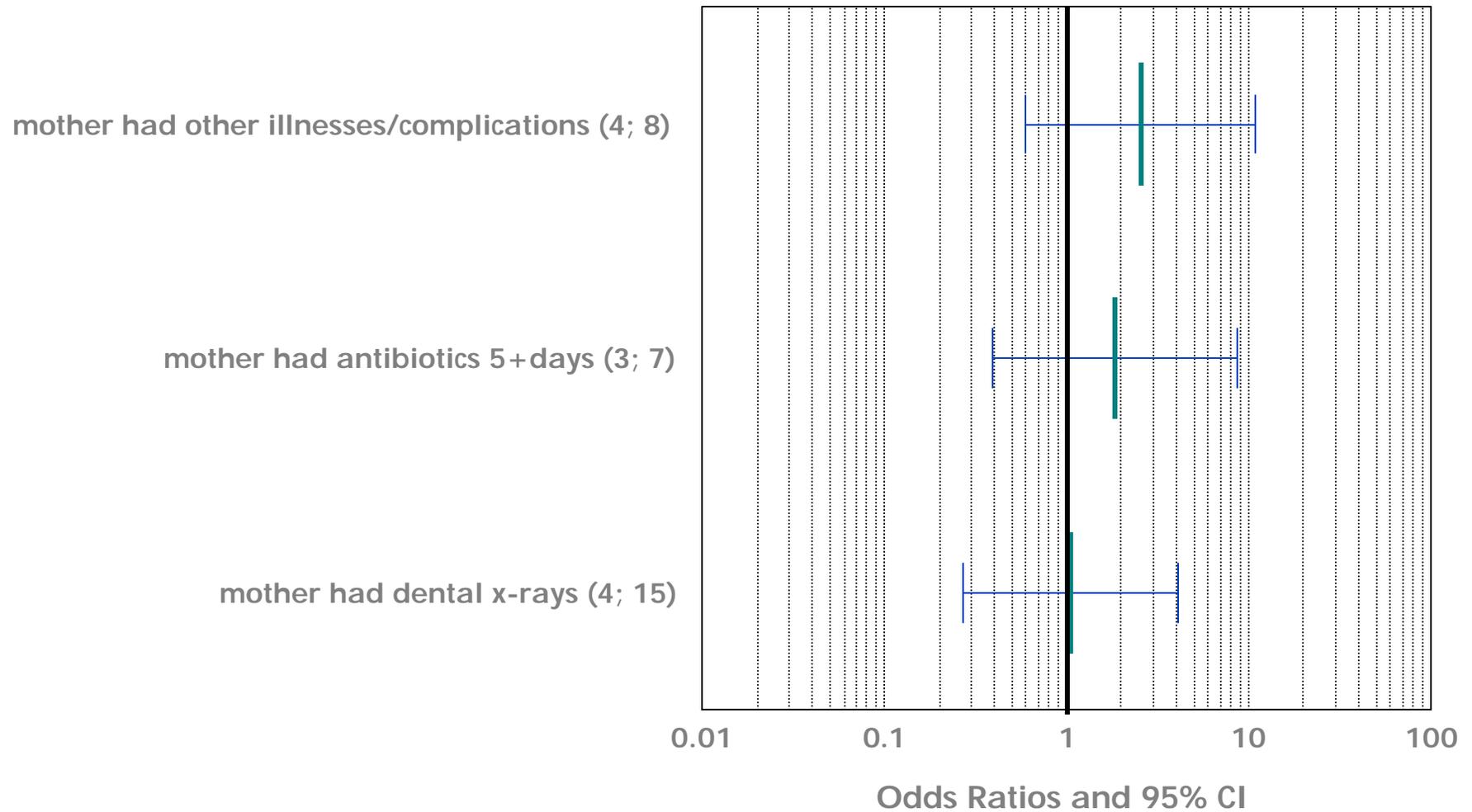
Prenatal, Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 32b

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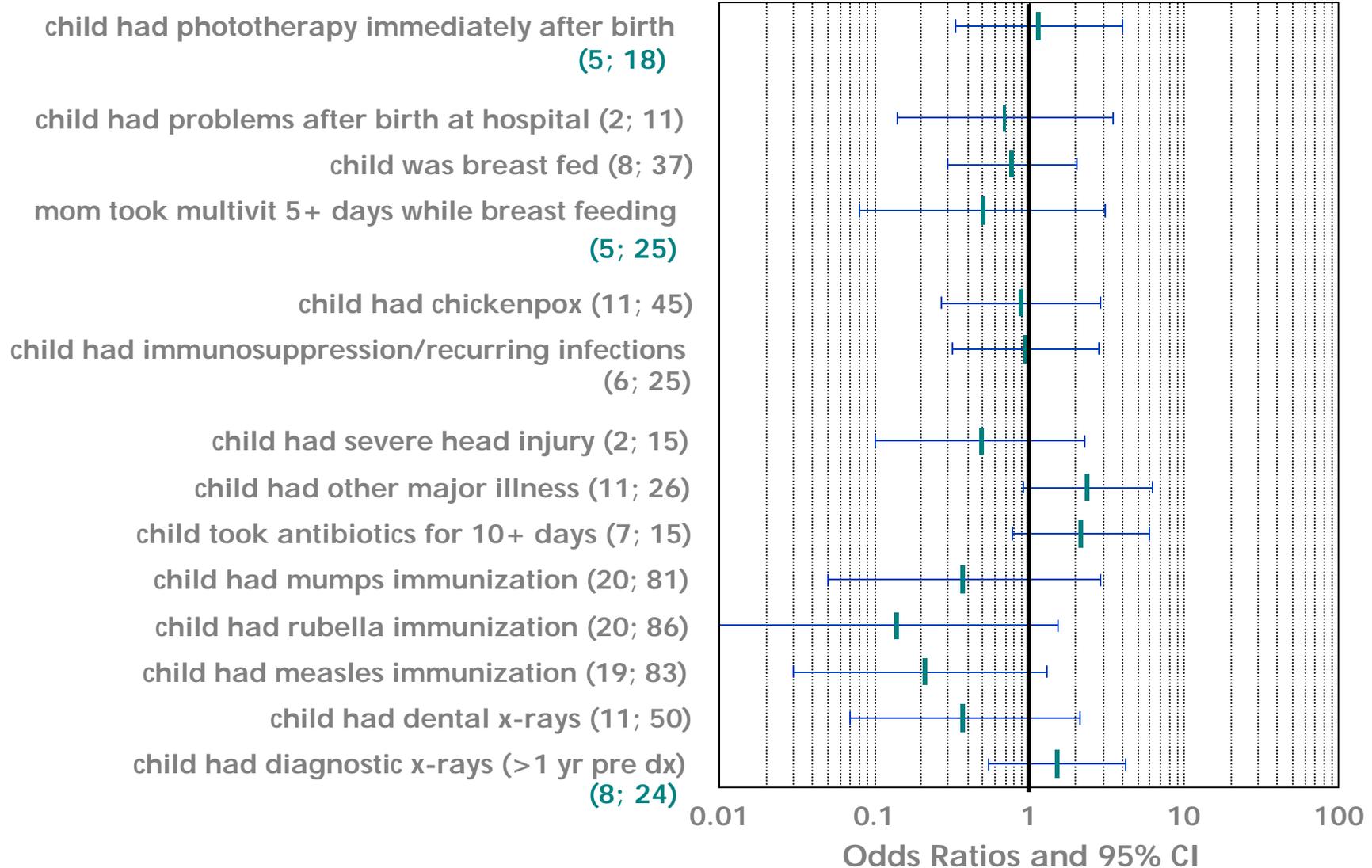
Prenatal, Brain and Nervous System Cancers: Diagnosis Ages 0 - 19
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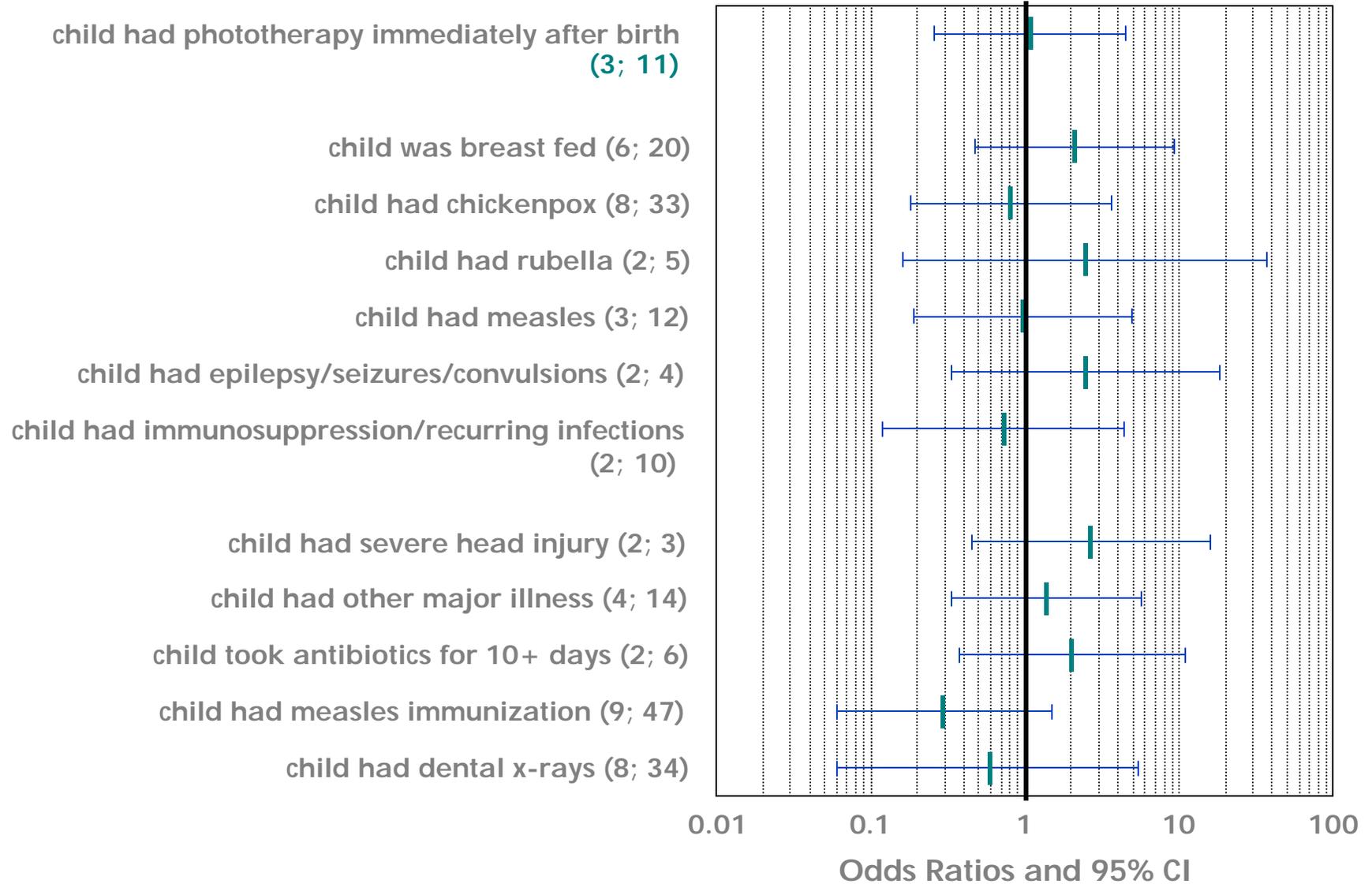
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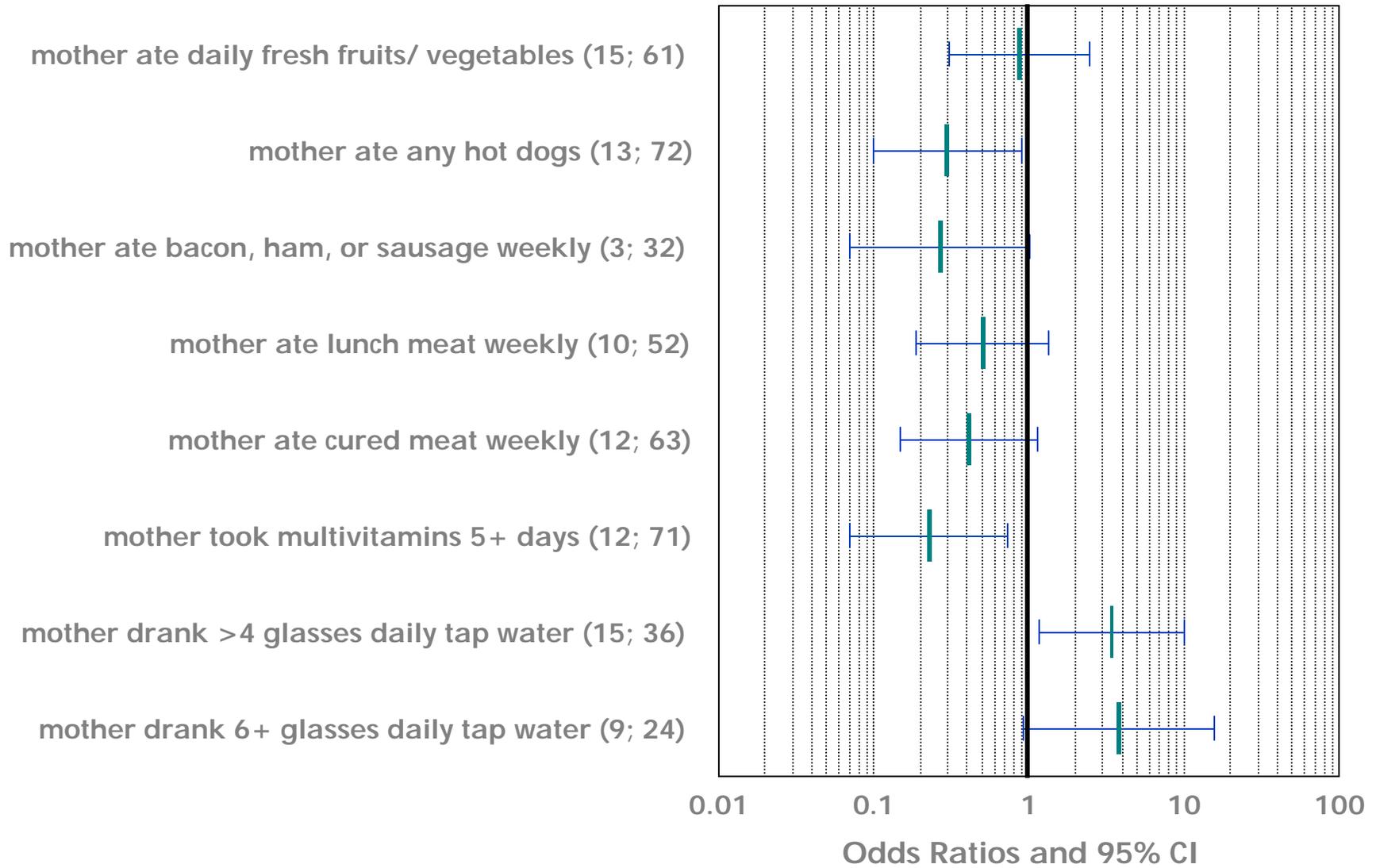
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(exposed cases; exposed controls)



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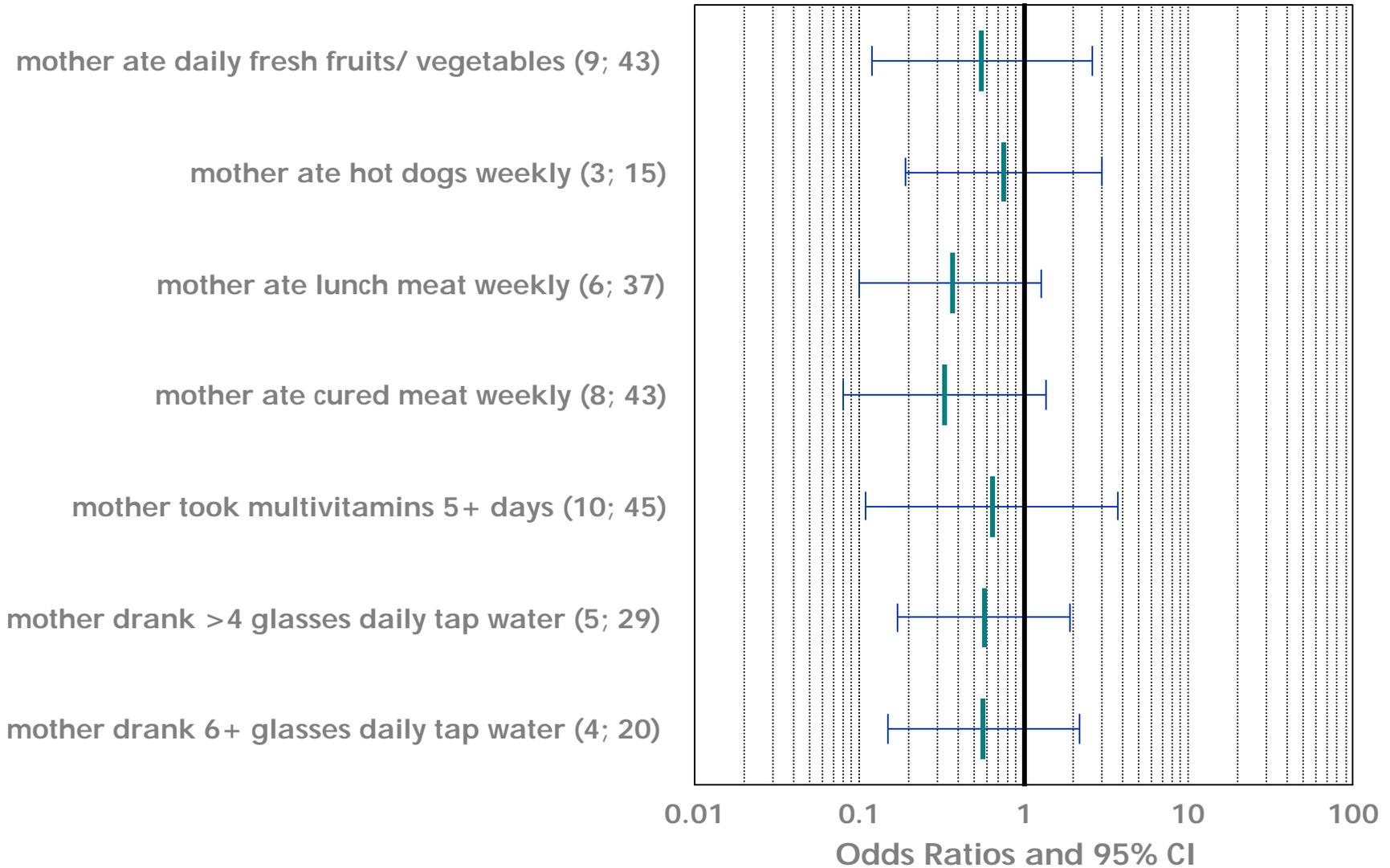
Leukemia : Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 34b

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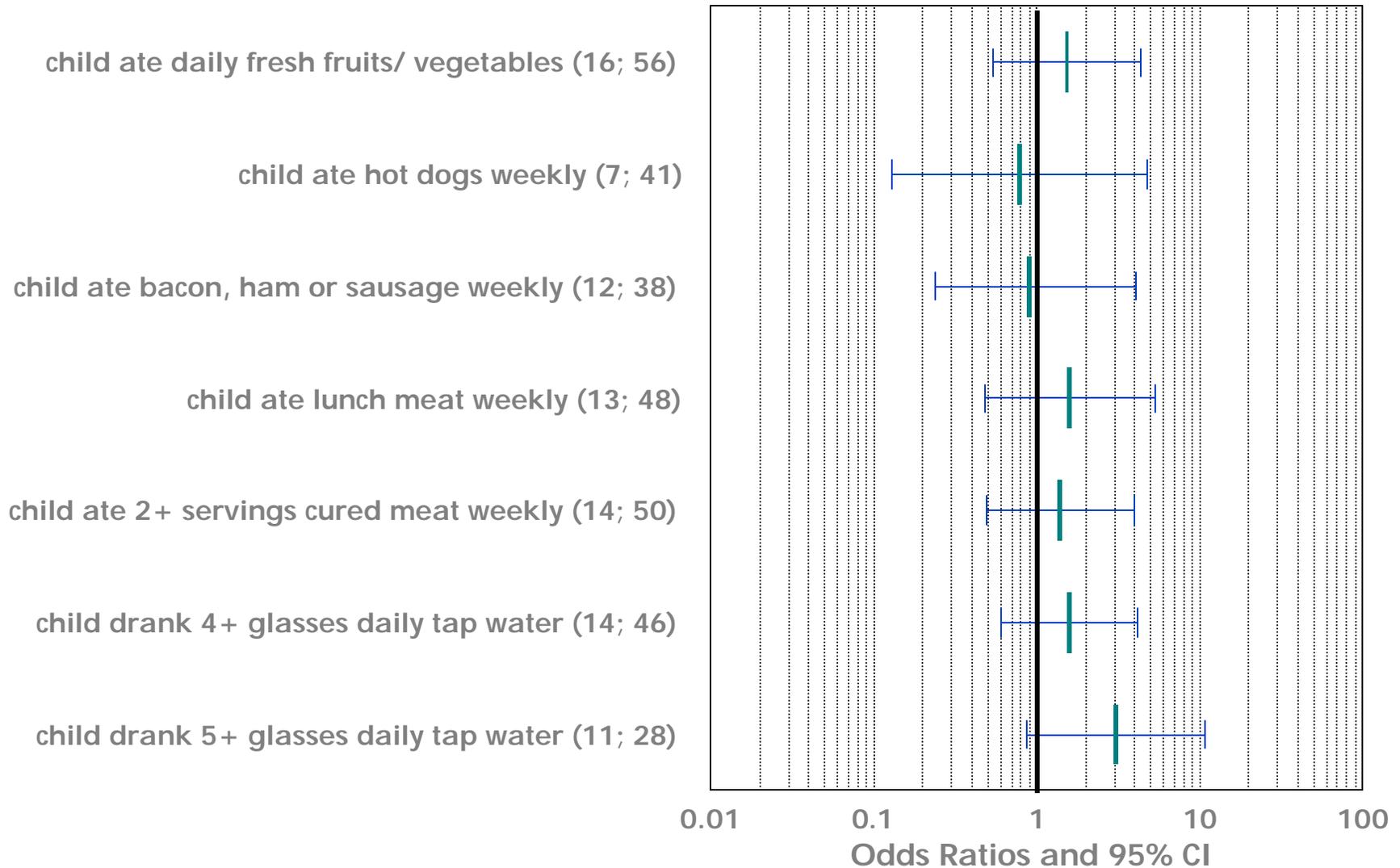
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Data from Table 34d

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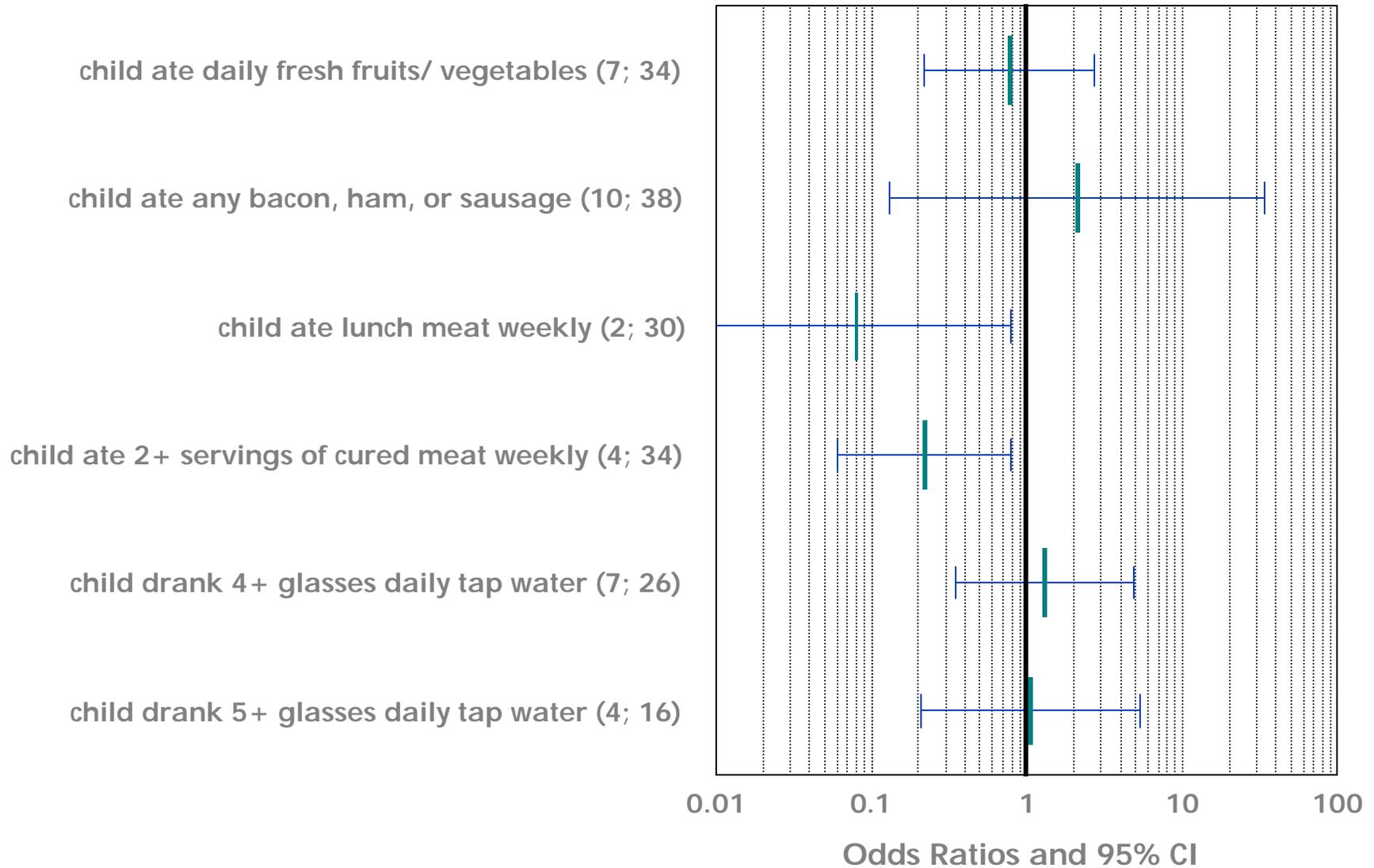
Leukemia : Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 34b

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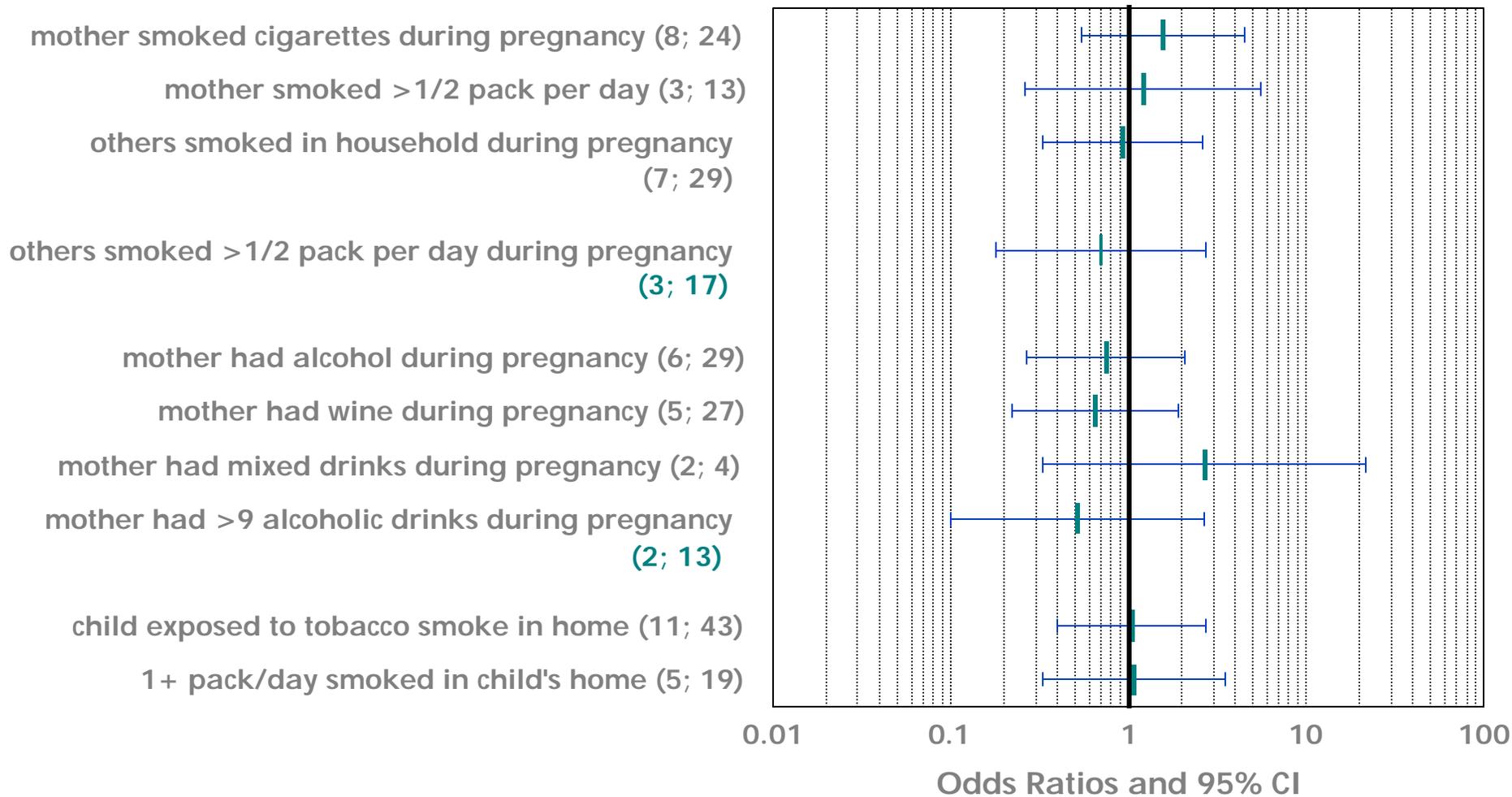
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Data from Table 34d

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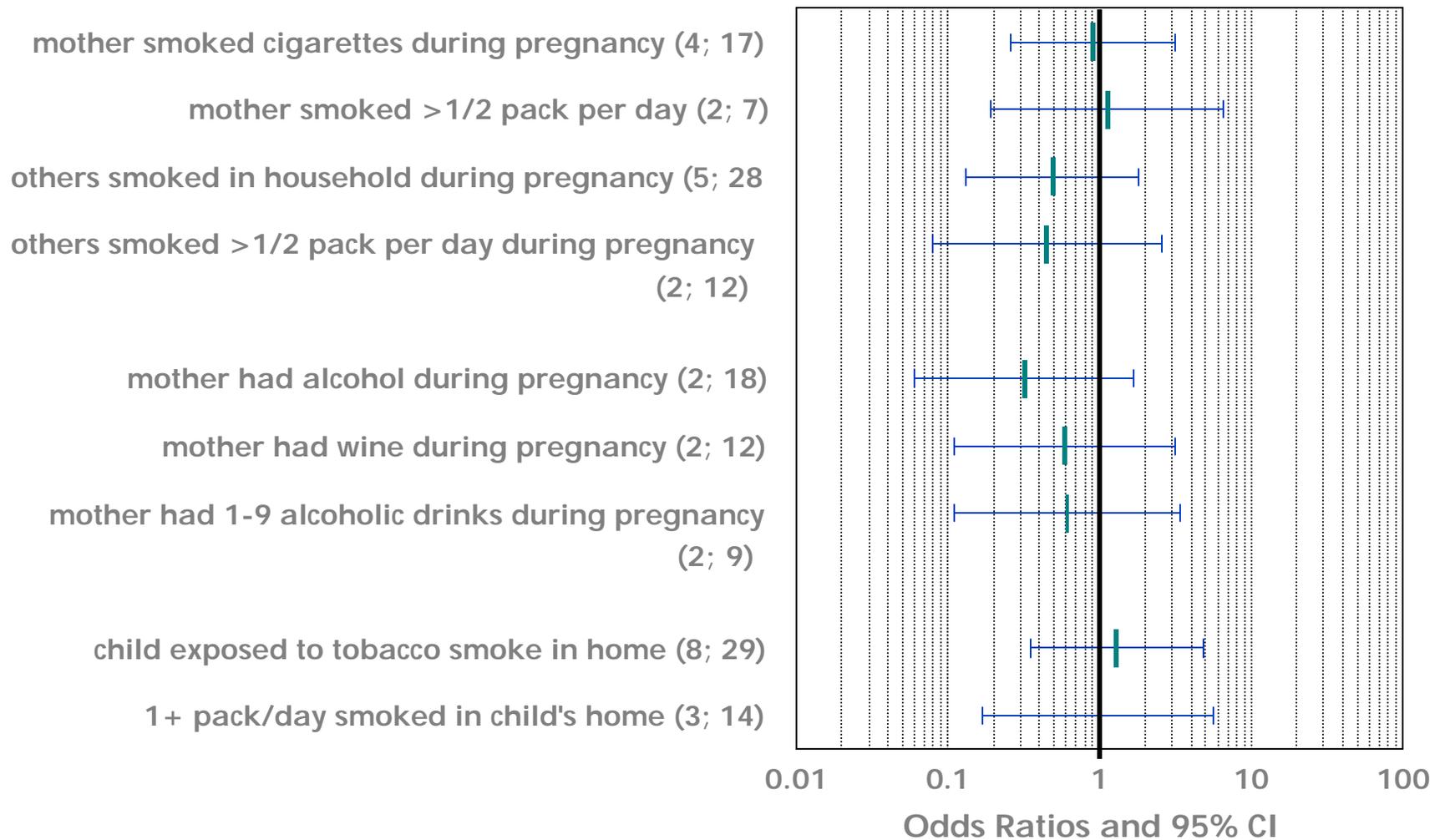
Leukemia: Diagnosis Ages 0 - 19
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Data from Table 36b

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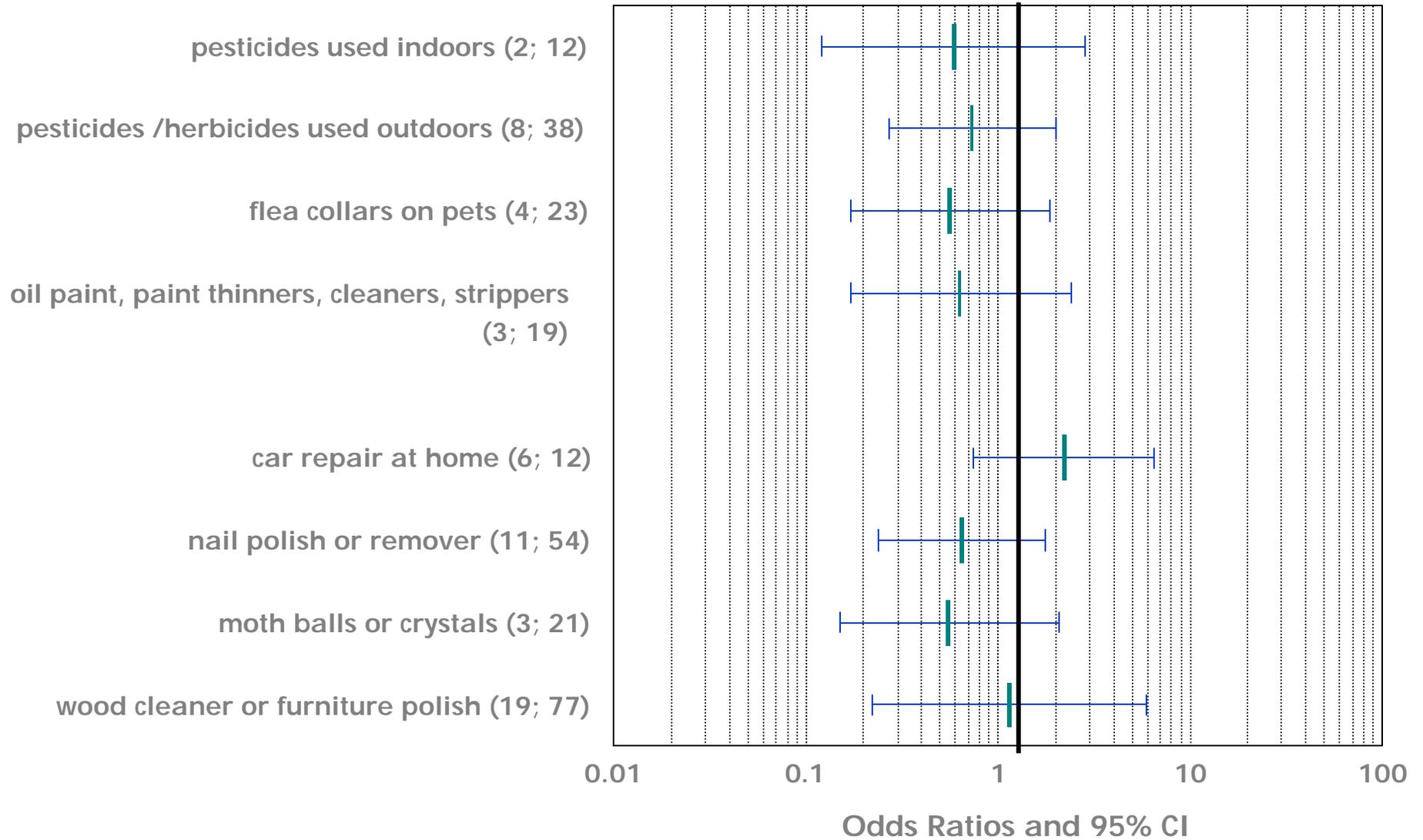
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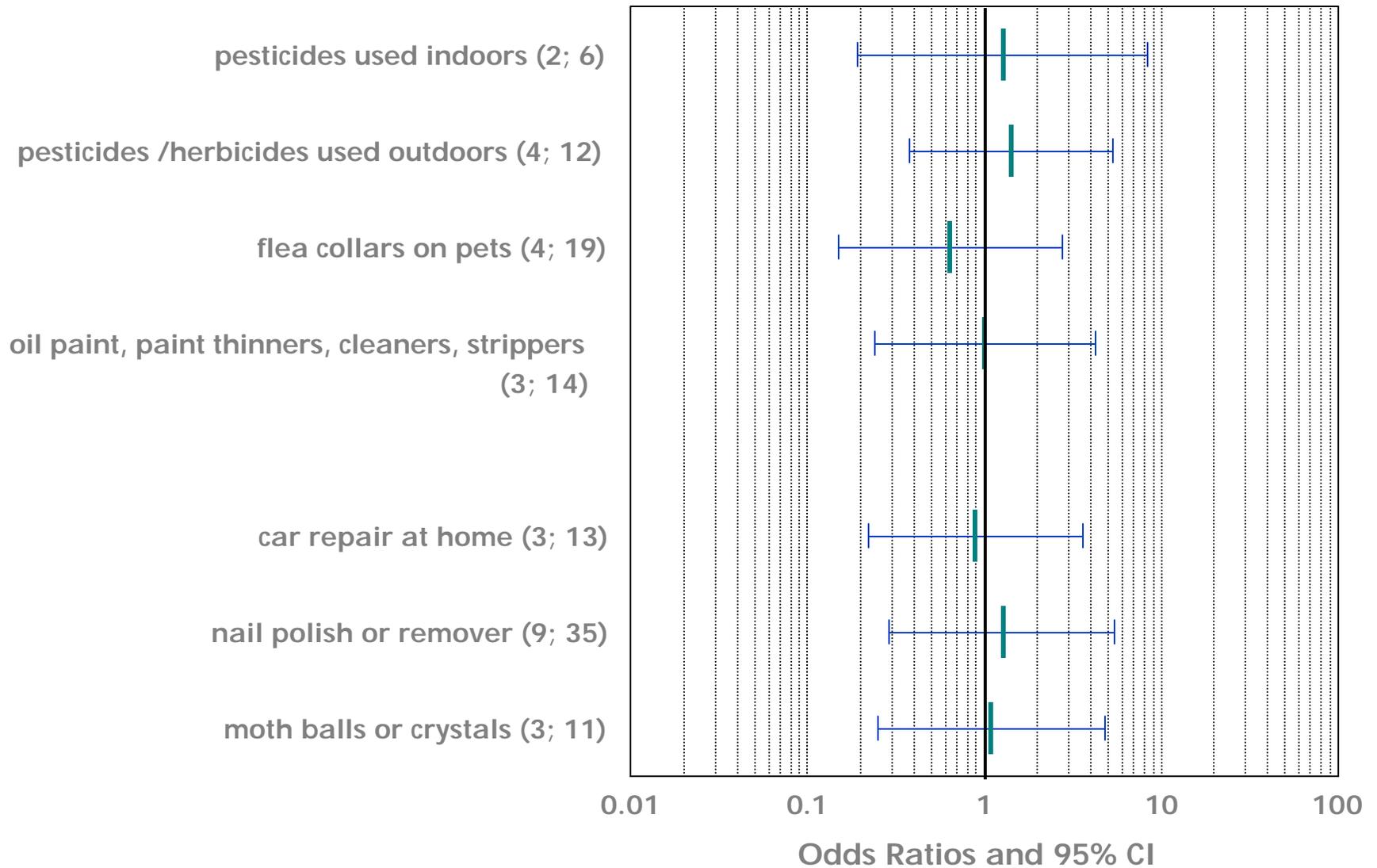
Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 38b

Figure 16b: Interview Study Prenatal Household-related Exposures: Chemicals, Animals, and EMFs

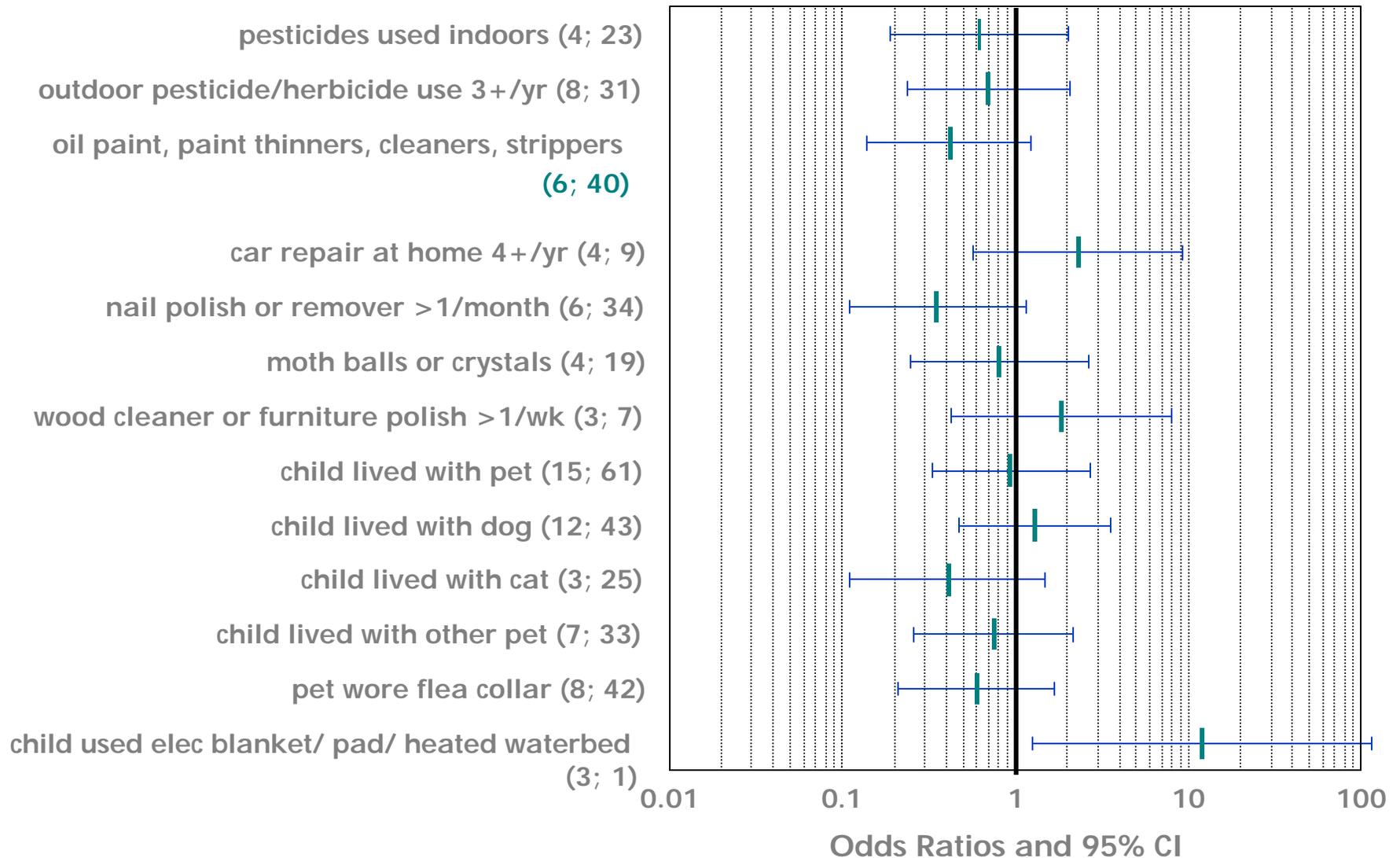
Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 38d

Figure 16c: Interview Study Postnatal Household-related Exposures: Chemicals, Animals, and EMFs

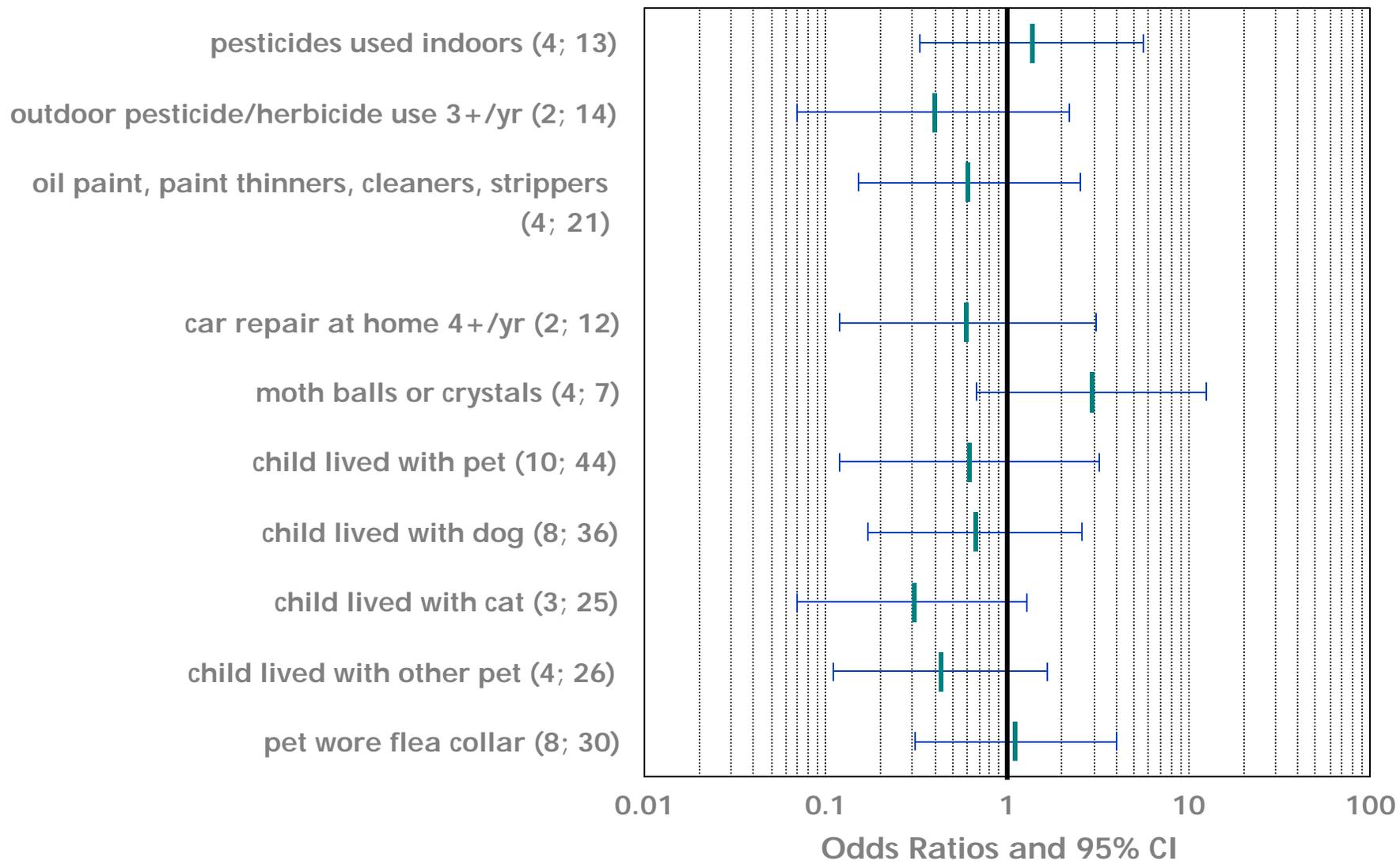
Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 38b

Figure 16d: Interview Study Postnatal Household-related Exposures: Chemicals, Animals, and EMFs

Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 38d

Figure 17: Percent of Birth Records Study Homes with Greater than Ten Percent Water from a Specific Public Well Field Source by Case Status

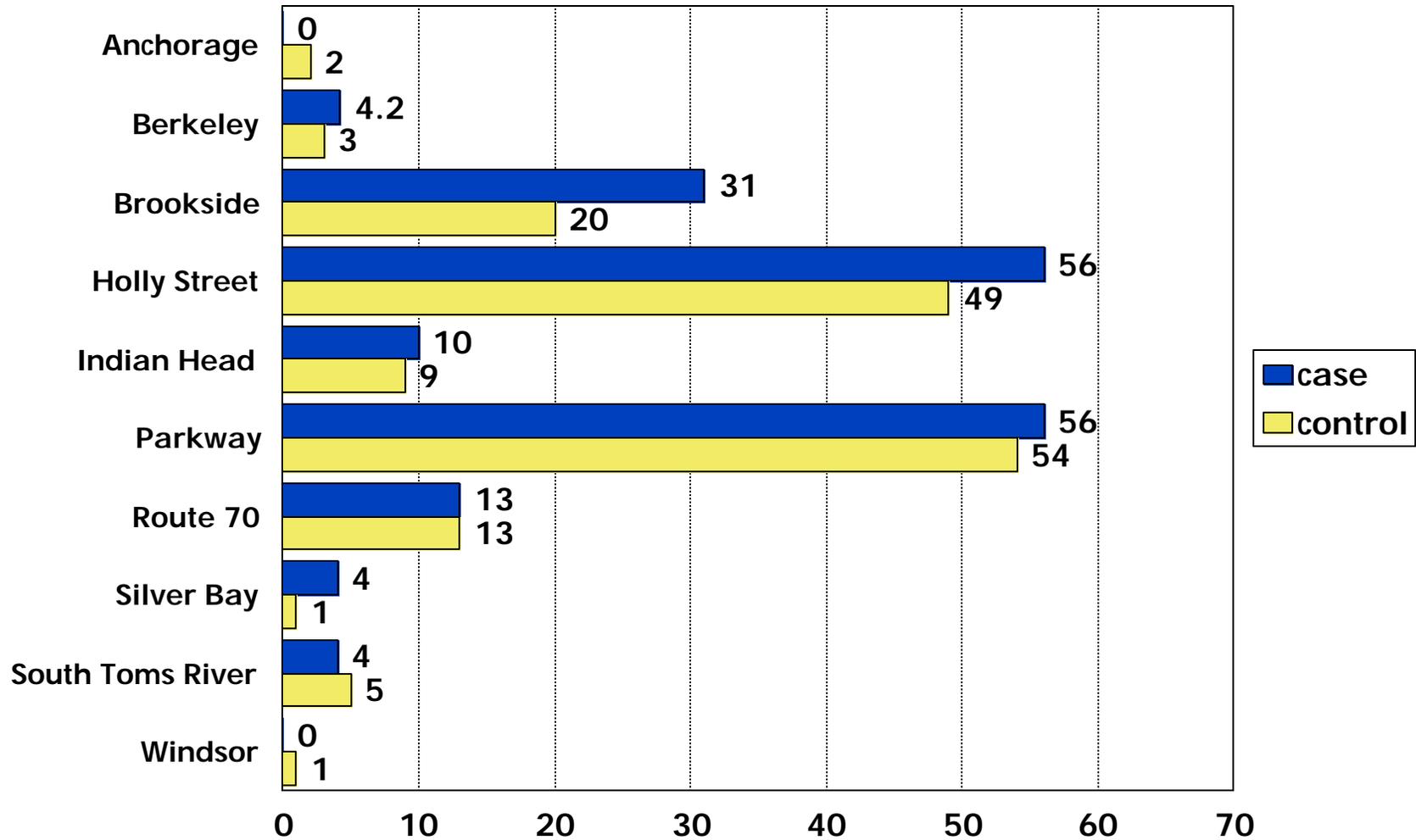
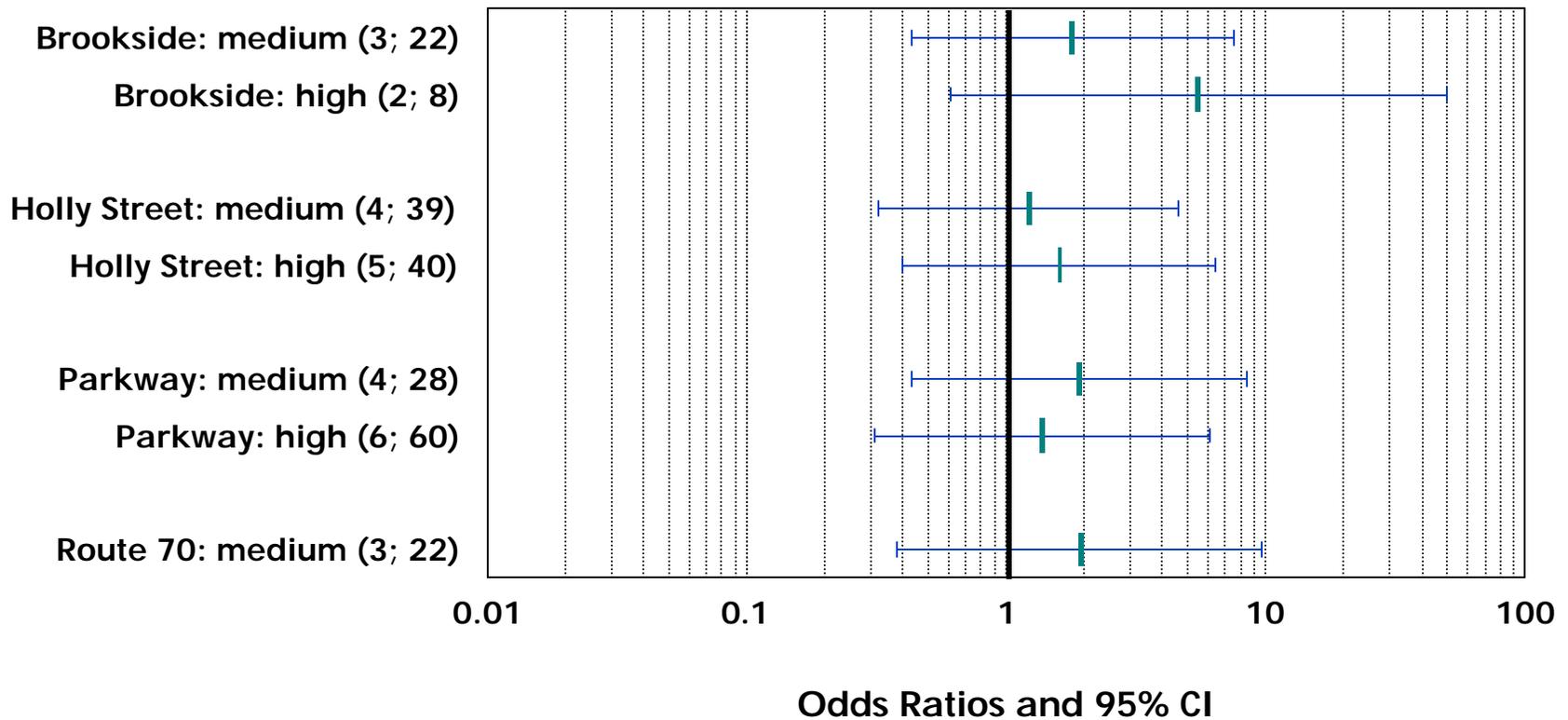


Figure 18a: Birth Records Study, Average Percent of Water from Select Public Well Field Sources

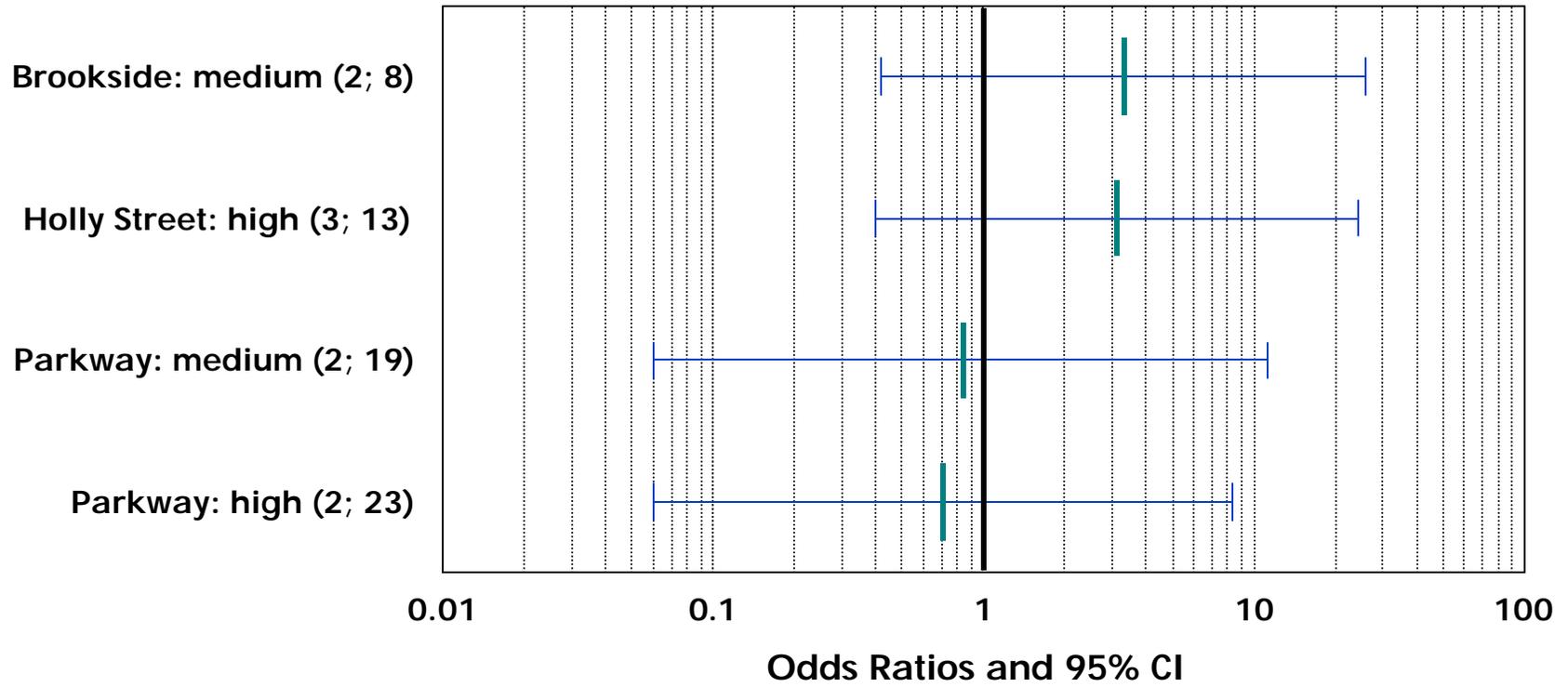
**Leukemia: Diagnosis Ages 0 to 19
(exposed cases; exposed controls)**



Data from Table 46b

Figure 18b: Birth Records Study, Average Percent of Water from Select Public Well Field Sources

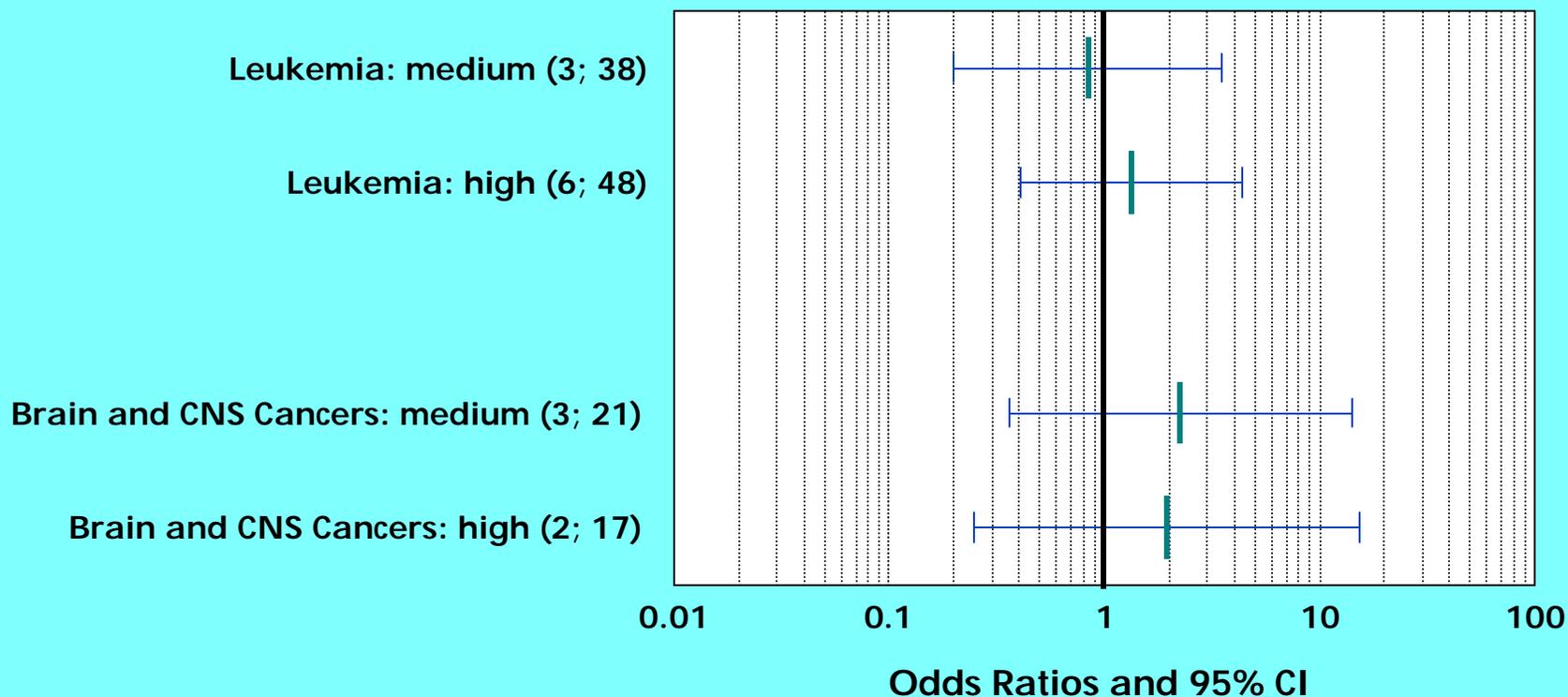
Brain and Nervous System Cancers: Diagnosis Ages 0 to 19
(exposed cases; exposed controls)



Data from Table 46d

Figure 19: Birth Records Study Point Source Air Pollution, Toms River Ciba-Geigy Chemical Plant

Leukemia, and Brain and Central Nervous System (CNS) Cancers:
Diagnosis Ages 0 to 19
(exposed cases; exposed controls)

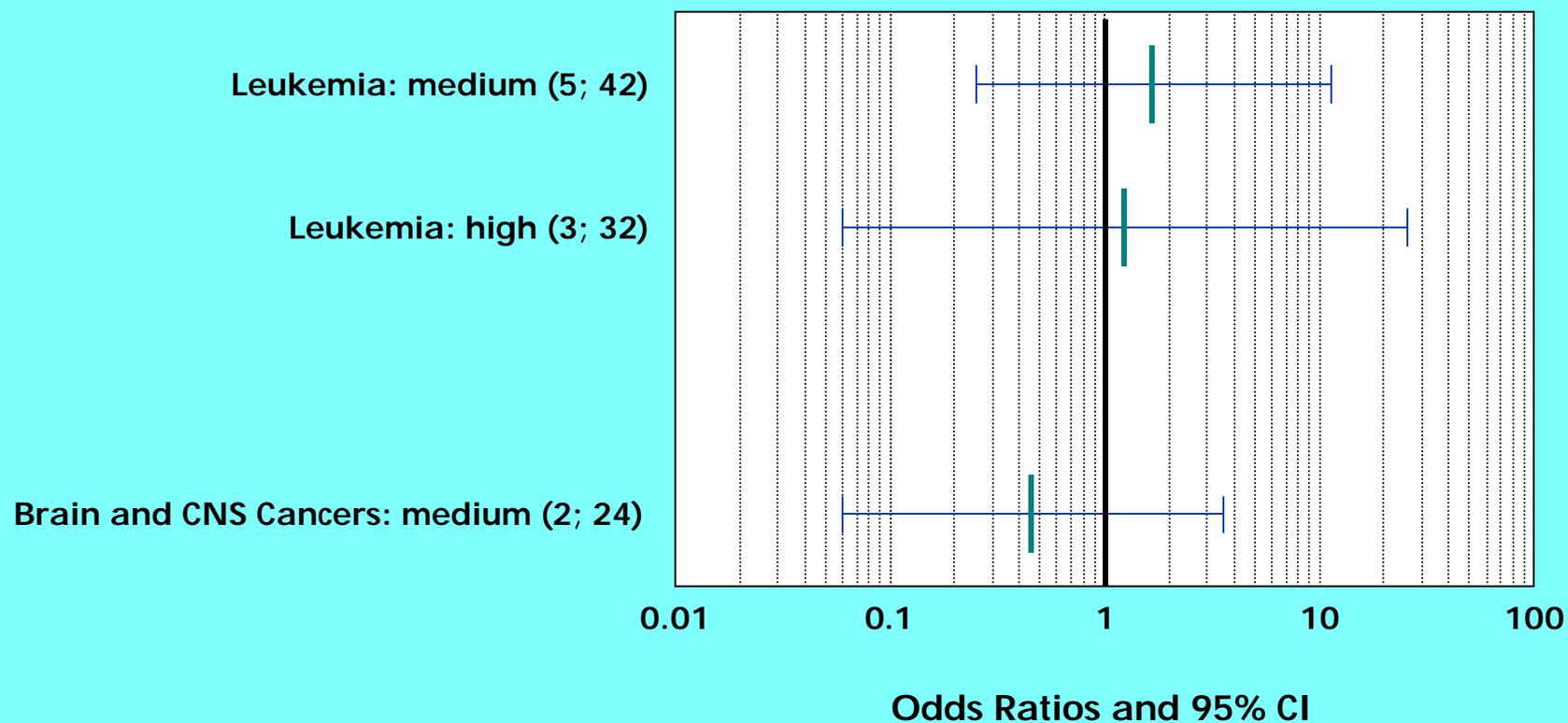


Data from Table 51b and 51d

medium: 1.50 - 3.04 relative impact units; high: >3.04 relative impact units

Figure 20: Birth Records Study Point Source Air Pollution, Oyster Creek Nuclear Generating Station

Leukemia, and Brain and Central Nervous System (CNS) Cancers:
Diagnosis Ages 0 to 19
(exposed cases; exposed controls)

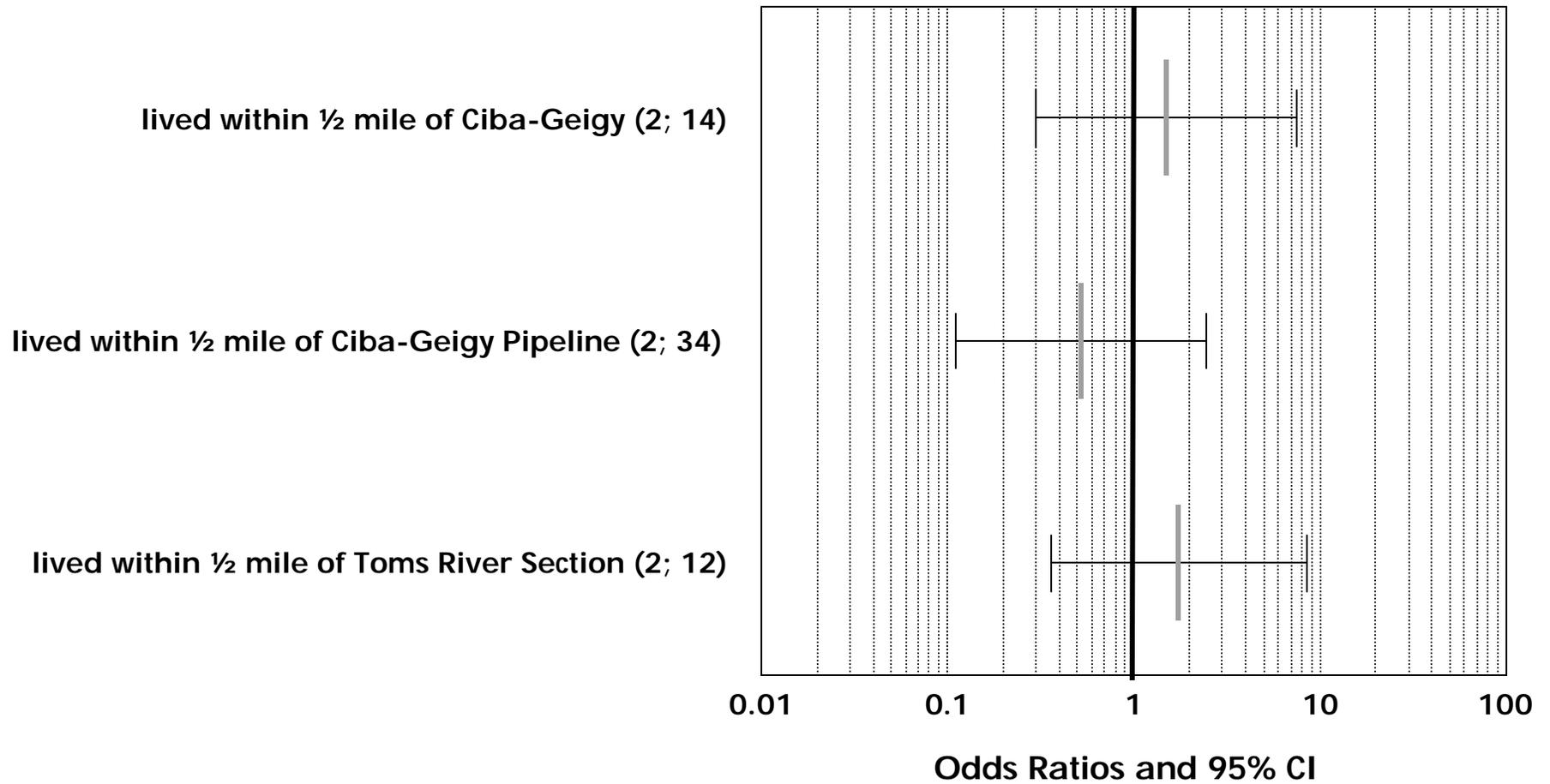


Data from Table 51

medium: 0.065 - 0.44 fCi/m^3 ; high: >0.44 fCi/m^3

Figure 21: Birth Record Study Proximity to Sites of Concern

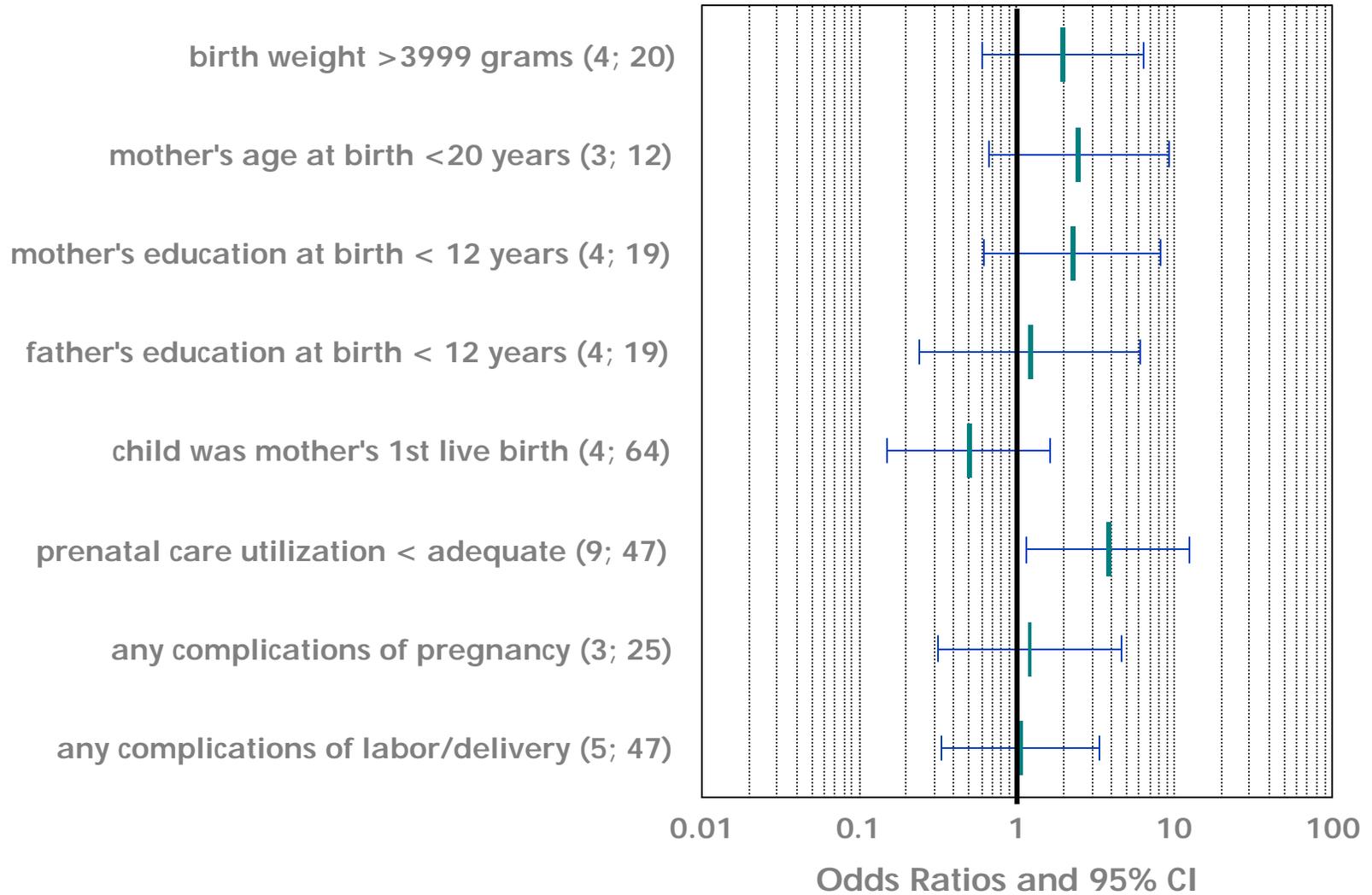
**Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)**



Data from Table 54b

Figure 22a: Birth Records Study Demographic, Pregnancy and Birth Characteristics

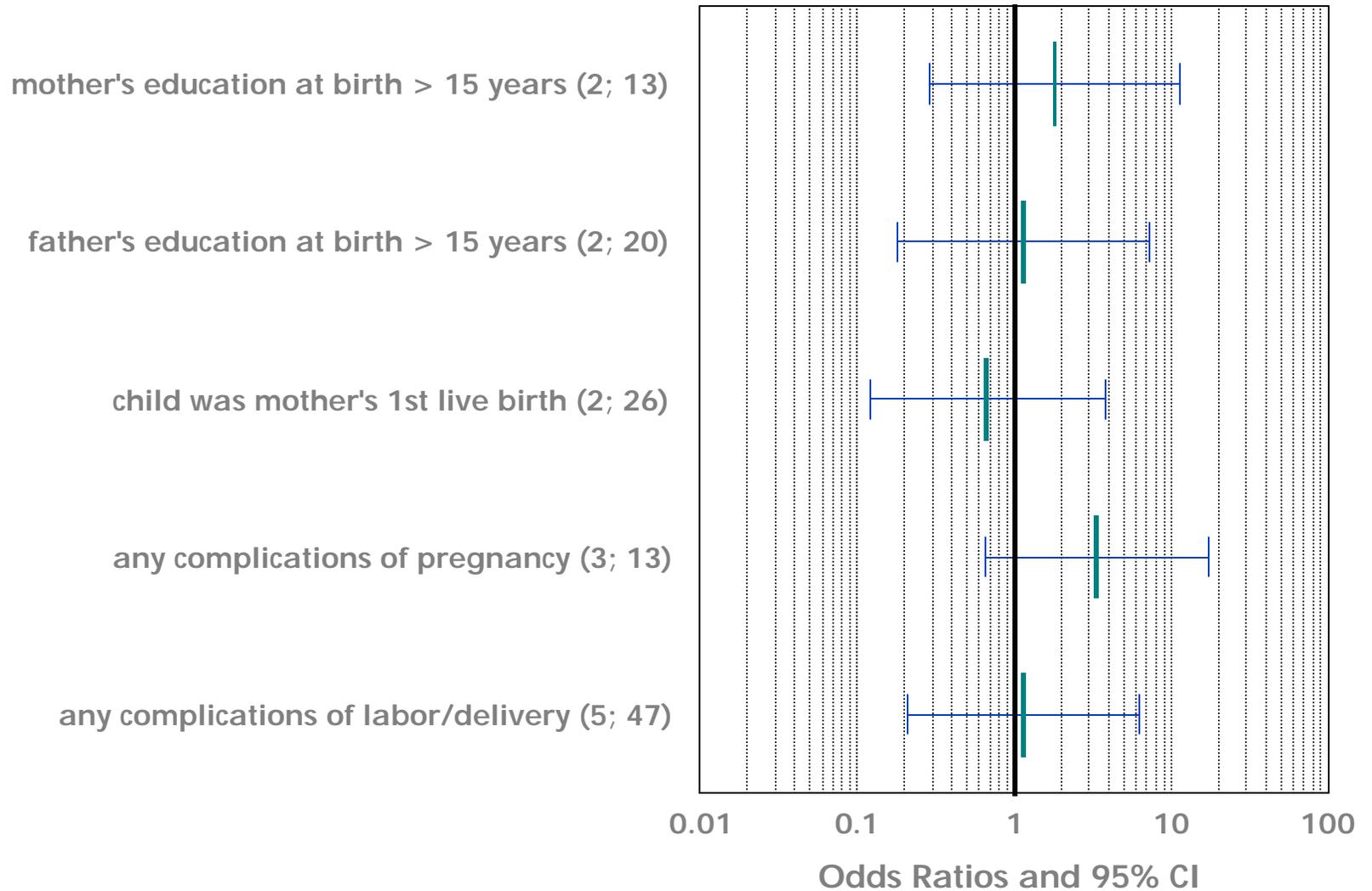
Leukemia: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 58b

Figure 22b: Birth Records Study Demographic, Pregnancy and Birth Characteristics

Brain and Central Nervous System Cancers: Diagnosis Ages 0 - 19
(exposed cases; exposed controls)



Data from Table 58d

Tables

Table 1. Interview Study Summary of Participant Recruitment

Status	Cases	Controls
Total number of recruitment attempts	42	238
Ineligible for participation:		
Did not meet case definition	2	-
Matched case not eligible	-	8
Did not meet control definition	-	32
Total number of potentially eligible subjects	40	198
Outcome of potentially eligible subjects:		
Total number of participating subjects	40	159
Parent refusal	0	19
Subject refusal	0	0
No response after repeated attempts to contact	0	12
Unable to locate	0	7
Deceased/disabled parents	0	1
Participation rate*	100%	80.3%
Overall study participation rate*	83.6%	
Number of the Initially Selected Controls per Case Interviewed	Number of Cases	
4	18	
3	16	
2	6	
1	0	
0	0	

*Participation Rate = $\frac{\text{Interviewed}}{\text{Total number of potentially eligible subjects}}$

Table 2. Interview Study Number of Cases by Diagnosis Age and Cancer Type

Cancer Type	Age at Diagnosis				Total Cases by Type	Percent of All Studied Cancers
	0 - 4	5 - 9	10 - 14	15 - 19		
Leukemia	9	5	3	5	22	55.0
Sympathetic nervous system cancer	5	0	0	0	5	12.5
Brain and central nervous system cancer	4	3	3	3	13	32.5
Total	18	8	6	8	40	

Table 3. Interview Study Characteristics of the Interview

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Number of interviews conducted by interviewer:				
A	20	50.0	91	57.2
B	20	50.0	67	42.1
C	0	0	1	0.6
Who was interviewed for mother's section:				
Birth mother	38	95.0	148	93.1
Birth father	1	2.5	7	4.4
Adoptive/custodial parent	1	2.5	4	2.5
Who was interviewed for father's section:				
Birth mother	13	32.5	63	39.6
Birth father	25	62.5	92	57.9
Adoptive/custodial parent	2	5.0	4	2.5
Type of Interview:				
Telephone	39	97.5	159	100
In-person	1	2.5	0	0

Table 4. Interview Study Residence with a Private Well in a Groundwater Region

Residence with a Private Well in a Groundwater Region during Total Time Period	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
A. Pleasant Plains Zone 1				
Ever	0	0.0	1	0.6
Never	39	97.5	156	98.1
Unknown	1	2.5	2	1.3
B. Reich Farm Plume				
Ever	0	0.0	0	0.0
Never	39	97.5	157	98.7
Unknown	1	2.5	2	1.3
C. Ciba-Geigy Groundwater Plume				
Ever	0	0.0	0	0.0
Never	39	97.5	157	98.7
Unknown	1	2.5	2	1.3
D. Silverton Wells				
Ever	0	0.0	0	0.0
Never	39	97.5	157	98.7
Unknown	1	2.5	2	1.3
E. Silverton Road				
Ever	0	0.0	0	0.0
Never	39	97.5	157	98.7
Unknown	1	2.5	2	1.3
F. North Gilford Park				
Ever	0	0.0	1	0.6
Never	39	97.5	154	96.9
Unknown	1	2.5	4	2.5
G. Shelter Cove				
Ever	0	0.0	1	0.6
Never	39	97.5	156	98.1
Unknown	1	2.5	2	1.3

Residence with a Private Well in a Groundwater Region during Total Time Period	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
H. Breton Harbors				
Ever	1	2.5	0	0.0
Never	38	95.0	157	98.7
Unknown	1	2.5	2	1.3
I. North Maple Avenue				
Ever	0	0.0	0	0.0
Never	39	97.5	157	98.7
Unknown	1	2.5	2	1.3
J. Beachwood and Veeder				
Ever	0	0.0	1	0.6
Never	39	97.5	156	98.1
Unknown	1	2.5	2	1.3
K. Miscellaneous Street Segments				
Ever	1	2.5	0	0.0
Never	38	95.0	157	98.7
Unknown	1	2.5	2	1.3

Table 4: page 2 of 2

Table 5a. Interview Study Analysis of Private Well Use in Any Groundwater Region: Leukemia and Nervous System Cancers

Cancer Type	Diagnosis Age	Private Well in Any Groundwater Region	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure						
Leukemia and Nervous System	0 through 19	Never Ever	37 2	151 4	1.0 2.05	- 0.33 - 12.7
	0 through 4	Never Ever	17 1	67 2	1.0 1.81	- 0.16 - 20.1
Prenatal Exposure						
Leukemia and Nervous System	0 through 19	Never Ever	38 2	156 1	1.0 8.00	- 0.73 - 88.2
	0 through 4	Never Ever	17 1	70 0	1.0 -	- -
Postnatal Exposure						
Leukemia and Nervous System	0 through 19	Never Ever	37 2	151 4	1.0 2.05	- 0.33 - 12.7
	0 through 4	Never Ever	17 1	67 2	1.0 1.81	- 0.16 - 20.1

Table 5b. Interview Study Analysis of Private Well Use in Any Groundwater Region: Leukemia

Cancer Type	Diagnosis Age	Private Well in Any Groundwater Region	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure						
Leukemia	0 through 19	Never Ever	19 2	84 2	1.0 5.40	- 0.47 - 62.1
	0 through 4	Never Ever	8 1	33 1	1.0 3.46	- 0.22 - 55.8
Prenatal Exposure						
Leukemia	0 through 19	Never Ever	20 2	87 0	1.0 -	- -
	0 through 4	Never Ever	8 1	35 0	1.0 -	- -
Postnatal Exposure						
Leukemia	0 through 19	Never Ever	19 2	84 2	1.0 5.40	- 0.47 - 62.1
	0 through 4	Never Ever	8 1	33 1	1.0 3.46	- 0.22 - 55.8

Table 5c. Interview Study Analysis of Private Well Use in Any Groundwater Region: Nervous System Cancers

Cancer Type	Diagnosis Age	Private Well in Any Groundwater Region	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure						
Nervous System	0 through 19	Never Ever	18 0	67 2	1.0 0	- -
	0 through 4	Never Ever	9 0	34 1	1.0 0	- -
Prenatal Exposure						
Nervous System	0 through 19	Never Ever	18 0	69 1	1.0 0	- -
	0 through 4	Never Ever	9 0	35 0	1.0 -	- -
Postnatal Exposure						
Nervous System	0 through 19	Never Ever	18 0	67 2	1.0 0	- -
	0 through 4	Never Ever	9 0	34 1	1.0 0	- -

Table 5d. Interview Study Analysis of Private Well Use in Any Groundwater Region: Brain and Central Nervous System Cancers

Cancer Type	Diagnosis Age	Private Well in Any Groundwater Region	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure						
Brain & Central Nervous System	0 through 19	Never Ever	13 0	49 1	1.0 0	- -
	0 through 4	Never Ever	4 0	16 0	1.0 -	- -
Prenatal Exposure						
Brain & Central Nervous System	0 through 19	Never Ever	13 0	50 1	1.0 0	- -
	0 through 4	Never Ever	4 0	16 0	1.0 -	- -
Postnatal Exposure						
Brain & Central Nervous System	0 through 19	Never Ever	13 0	49 1	1.0 0	- -
	0 through 4	Never Ever	4 0	16 0	1.0 -	- -

Table 6. Interview Study Percent of Public Water Delivered by Source to Study Residences

Well Field	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Anchorage				
<10%	40	100.0	158	99.4
10% - 49.9%	0	0.0	0	0.0
50%+	0	0.0	0	0.0
Unknown	0	0.0	1	0.6
Berkeley				
<10%	38	95.0	148	93.1
10% - 49.9%	2	5.0	10	6.3
50%+	0	0.0	0	0.0
Unknown	0	0.0	1	0.6
Brookside				
<10%	37	92.5	144	90.6
10% - 49.9%	3	7.5	13	8.2
50%+	0	0.0	1	0.6
Unknown	0	0.0	1	0.6
Holly Street				
<10%	26	65.0	87	54.7
10% - 49.9%	11	27.5	53	33.3
50%+	3	7.5	18	11.3
Unknown	0	0.0	1	0.6
Indian Head				
<10%	38	95.0	146	91.8
10% - 49.9%	2	5.0	12	7.6
50%+	0	0.0	0	0.0
Unknown	0	0.0	1	0.6
Parkway				
<10%	14	35.0	49	30.8
10% - 49.9%	19	47.5	81	50.9
50%+	7	17.5	28	17.6
Unknown	0	0.0	1	0.6

Well Field	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Route 70				
<10%	38	95.0	140	88.1
10% - 49.9%	1	2.5	13	8.2
50%+	1	2.5	5	3.1
Unknown	0	0.0	1	0.6
Silver Bay				
<10%	40	100.0	157	98.7
10% - 49.9%	0	0.0	1	0.6
50%+	0	0.0	0	0.0
Unknown	0	0.0	1	0.6
South Toms River				
<10%	40	100.0	150	94.3
10% - 49.9%	0	0.0	8	5.0
50%+	0	0.0	0	0.0
Unknown	0	0.0	1	0.6
Windsor				
<10%	40	100.0	156	98.1
10% - 49.9%	0	0.0	2	1.3
50%+	0	0.0	0	0.0
Unknown	0	0.0	1	0.6

Table 6: page 2 of 2

Table 7a. Interview Study Analysis of Public Water Indices: Leukemia and Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	37	144	1.0	-
	10 - 49.9	3	13	0.83	0.19 - 3.55
	50+	0	1	0	-
Holly Street	<10	26	87	1.0	-
	10 - 49.9	11	53	0.70	0.32 - 1.52
	50+	3	18	0.56	0.15 - 2.05
Indian Head	<10	38	146	1.0	-
	10 - 49.9	2	12	0.67	0.15 - 2.98
	50+	0	0	-	-
Parkway	<10	14	49	1.0	-
	10 - 49.9	19	81	0.83	0.38 - 1.82
	50+	7	28	0.88	0.32 - 2.45
Route 70	<10	38	140	1.0	-
	10 - 49.9	1	13	0.28	0.04 - 2.25
	50+	1	5	0.71	0.08 - 6.15

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	36	145	1.0	-
	10 - 49.9	4	11	1.50	0.40 - 5.56
	50+	0	1	0	-
Holly Street	<10	31	116	1.0	-
	10 - 49.9	4	19	0.77	0.23 - 2.57
	50+	5	22	0.85	0.29 - 2.48
Indian Head	<10	39	152	1.0	-
	10 - 49.9	1	5	0.80	0.09 - 6.85
	50+	0	0	-	-
Parkway	<10	26	110	1.0	-
	10 - 49.9	5	24	0.89	0.27 - 2.88
	50+	9	23	1.68	0.67 - 4.23
Route 70	<10	36	147	1.0	-
	10 - 49.9	3	7	1.82	0.44 - 7.47
	50+	1	3	1.53	0.13 - 17.8

Table 7: page 2 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	38	144	1.0	-
	10 - 49.9	2	13	0.56	0.12 - 2.71
	50+	0	1	0	-
Holly Street	<10	24	86	1.0	-
	10 - 49.9	12	51	0.85	0.40 - 1.81
	50+	4	21	0.67	0.20 - 2.20
Indian Head	<10	39	145	1.0	-
	10 - 49.9	1	13	0.30	0.04 - 2.32
	50+	0	0	-	-
Parkway	<10	14	46	1.0	-
	10 - 49.9	19	80	0.79	0.36 - 1.74
	50+	7	32	0.72	0.26 - 1.99
Route 70	<10	39	137	1.0	-
	10 - 49.9	0	15	0	-
	50+	1	6	0.55	0.06 - 4.82

Table 7: page 3 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	17	67	1.0	-
	10 - 49.9	1	3	1.15	0.04 - 32.1
	50+	0	0	-	-
Holly Street	<10	11	39	1.0	-
	10 - 49.9	5	22	0.81	0.24 - 2.70
	50+	2	9	0.81	0.15 - 4.26
Indian Head	<10	17	67	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8
	50+	0	0	-	-
Parkway	<10	6	23	1.0	-
	10 - 49.9	8	33	0.94	0.28 - 3.24
	50+	4	14	1.10	0.27 - 4.45
Route 70	<10	16	61	1.0	-
	10 - 49.9	1	7	0.59	0.07 - 4.99
	50+	1	2	1.85	0.16 - 20.8

Table 7: page 4 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	16	65	1.0	-
	10 - 49.9	2	5	1.78	0.20 - 15.8
	50+	0	0	-	-
Holly Street	<10	13	48	1.0	-
	10 - 49.9	3	12	0.91	0.22 - 3.80
	50+	2	10	0.74	0.15 - 3.78
Indian Head	<10	17	67	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8
	50+	0	0	-	-
Parkway	<10	8	38	1.0	-
	10 - 49.9	4	21	0.88	0.22 - 3.50
	50+	6	11	2.51	0.72 - 8.76
Route 70	<10	16	61	1.0	-
	10 - 49.9	1	6	0.66	0.07 - 5.91
	50+	1	3	1.33	0.11 - 16.1

Table 7: page 5 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	18	67	1.0	-
	10 - 49.9	0	3	0	-
	50+	0	0	-	-
Holly Street	<10	9	38	1.0	-
	10 - 49.9	6	22	1.22	0.36 - 4.10
	50+	3	10	1.32	0.29 - 6.09
Indian Head	<10	18	66	1.0	-
	10 - 49.9	0	4	0	-
	50+	0	0	-	-
Parkway	<10	6	23	1.0	-
	10 - 49.9	8	30	1.05	0.31 - 3.63
	50+	4	17	0.92	0.23 - 3.71
Route 70	<10	17	59	1.0	-
	10 - 49.9	0	9	0	-
	50+	1	2	1.42	0.13 - 16.0

Table 7: page 6 of 24

Table 7b. Interview Study Analysis of Public Water Indices: Leukemia

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia Diagnosis Ages 0 through 19					
Brookside	<10	21	81	1.0	-
	10 - 49.9	1	5	0.79	0.08 - 7.28
	50+	0	1	0	-
Holly Street	<10	16	48	1.0	-
	10 - 49.9	6	31	0.58	0.21 - 1.59
	50+	0	8	0	-
Indian Head	<10	22	79	1.0	-
	10 - 49.9	0	8	0	-
	50+	0	0	-	-
Parkway	<10	9	22	1.0	-
	10 - 49.9	8	47	0.44	0.15 - 1.26
	50+	5	18	0.73	0.21 - 2.56
Route 70	<10	21	72	1.0	-
	10 - 49.9	0	10	0	-
	50+	1	5	0.66	0.08 - 5.75

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Brookside	<10	20	80	1.0	-
	10 - 49.9	2	6	1.36	0.26 - 7.20
	50+	0	1	0	-
Holly Street	<10	18	67	1.0	-
	10 - 49.9	2	8	0.95	0.17 - 5.37
	50+	2	12	0.58	0.10 - 3.26
Indian Head	<10	22	83	1.0	-
	10 - 49.9	0	4	0	-
	50+	0	0	-	-
Parkway	<10	15	62	1.0	-
	10 - 49.9	1	10	0.40	0.04 - 3.56
	50+	6	15	1.65	0.53 - 5.12
Route 70	<10	19	78	1.0	-
	10 - 49.9	2	6	1.40	0.26 - 7.49
	50+	1	3	1.47	0.13 - 17.2

Table 7: page 8 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Brookside	<10	21	81	1.0	-
	10 - 49.9	1	5	0.79	0.08 - 7.28
	50+	0	1	0	-
Holly Street	<10	14	48	1.0	-
	10 - 49.9	7	30	0.79	0.29 - 2.19
	50+	1	9	0.37	0.04 - 3.29
Indian Head	<10	22	79	1.0	-
	10 - 49.9	0	8	0	-
	50+	0	0	-	-
Parkway	<10	9	19	1.0	-
	10 - 49.9	8	46	0.39	0.13 - 1.14
	50+	5	22	0.51	0.15 - 1.78
Route 70	<10	21	70	1.0	-
	10 - 49.9	0	11	0	-
	50+	1	6	0.55	0.06 - 4.82

Table 7: page 9 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia Diagnosis Ages 0 through 4					
Brookside	<10	9	34	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-
Holly Street	<10	8	20	1.0	-
	10 - 49.9	1	12	0.22	0.03 - 1.95
	50+	0	3	0	-
Indian Head	<10	9	33	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Parkway	<10	4	11	1.0	-
	10 - 49.9	2	16	0.38	0.06 - 2.32
	50+	3	8	1.02	0.19 - 5.52
Route 70	<10	8	27	1.0	-
	10 - 49.9	0	6	0	-
	50+	1	2	1.56	0.14 - 17.8

Table 7: page 10 of 24

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Brookside	<10	8	33	1.0	-
	10 - 49.9	1	2	2.45	0.14 - 42.6
	50+	0	0	-	-
Holly Street	<10	8	27	1.0	-
	10 - 49.9	1	4	0.76	0.07 - 7.91
	50+	0	4	0	-
Indian Head	<10	9	33	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Parkway	<10	5	20	1.0	-
	10 - 49.9	0	9	0	-
	50+	4	6	2.55	0.52 - 12.5
Route 70	<10	8	27	1.0	-
	10 - 49.9	0	5	0	-
	50+	1	3	1.19	0.09 - 14.9

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Brookside	<10	9	34	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-
Holly Street	<10	6	20	1.0	-
	10 - 49.9	2	12	0.49	0.07 - 3.56
	50+	1	3	1.12	0.11 - 11.1
Indian Head	<10	9	33	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Parkway	<10	4	10	1.0	-
	10 - 49.9	2	14	0.37	0.05 - 2.53
	50+	3	11	0.64	0.11 - 3.71
Route 70	<10	8	26	1.0	-
	10 - 49.9	0	7	0	-
	50+	1	2	1.42	0.13 - 16.0

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Table 7c. Interview Study Analysis of Public Water Indices: Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	16	63	1.0	-
	10 - 49.9	2	8	0.87	0.13 - 5.97
	50+	0	0	-	-
Holly Street	<10	10	39	1.0	-
	10 - 49.9	5	22	0.88	0.27 - 2.86
	50+	3	10	1.18	0.28 - 4.97
Indian Head	<10	16	67	1.0	-
	10 - 49.9	2	4	2.00	0.37 - 10.9
	50+	0	0	-	-
Parkway	<10	5	27	1.0	-
	10 - 49.9	11	34	1.85	0.54 - 6.26
	50+	2	10	1.06	0.17 - 6.52
Route 70	<10	17	68	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8
	50+	0	0	-	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	16	65	1.0	-
	10 - 49.9	2	5	1.78	0.20 - 15.8
	50+	0	0	-	-
Holly Street	<10	13	49	1.0	-
	10 - 49.9	2	11	0.68	0.13 - 3.63
	50+	3	10	1.10	0.28 - 4.40
Indian Head	<10	17	69	1.0	-
	10 - 49.9	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-
Parkway	<10	11	48	1.0	-
	10 - 49.9	4	14	1.48	0.30 - 7.30
	50+	3	8	1.83	0.37 - 9.17
Route 70	<10	17	69	1.0	-
	10 - 49.9	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	17	63	1.0	-
	10 - 49.9	1	8	0.43	0.05 - 3.92
	50+	0	0	-	-
Holly Street	<10	10	38	1.0	-
	10 - 49.9	5	21	0.91	0.29 - 2.86
	50+	3	12	0.94	0.22 - 4.06
Indian Head	<10	17	66	1.0	-
	10 - 49.9	1	5	0.79	0.08 - 7.28
	50+	0	0	-	-
Parkway	<10	5	27	1.0	-
	10 - 49.9	11	34	1.79	0.54 - 5.92
	50+	2	10	1.06	0.18 - 6.28
Route 70	<10	18	67	1.0	-
	10 - 49.9	0	4	0	-
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	8	33	1.0	-
	10 - 49.9	1	2	-	-
	50+	0	0	-	-
Holly Street	<10	3	19	1.0	-
	10 - 49.9	4	10	2.59	0.48 - 14.0
	50+	2	6	2.24	0.30 - 16.5
Indian Head	<10	8	34	1.0	-
	10 - 49.9	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-
Parkway	<10	2	12	1.0	-
	10 - 49.9	6	17	2.44	0.37 - 16.0
	50+	1	6	0.93	0.07 - 11.8
Route 70	<10	8	34	1.0	-
	10 - 49.9	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	8	32	1.0	-
	10 - 49.9	1	3	1.15	0.04 - 32.1
	50+	0	0	-	-
Holly Street	<10	5	21	1.0	-
	10 - 49.9	2	8	1.06	0.17 - 6.64
	50+	2	6	1.36	0.21 - 8.63
Indian Head	<10	8	34	1.0	-
	10 - 49.9	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-
Parkway	<10	3	18	1.0	-
	10 - 49.9	4	12	2.33	0.34 - 15.9
	50+	2	5	2.61	0.31 - 21.9
Route 70	<10	8	34	1.0	-
	10 - 49.9	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	9	33	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Holly Street	<10	3	18	1.0	-
	10 - 49.9	4	10	2.29	0.46 - 11.4
	50+	2	7	1.88	0.24 - 14.9
Indian Head	<10	9	33	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Parkway	<10	2	13	1.0	-
	10 - 49.9	6	16	2.78	0.42 - 18.3
	50+	1	6	1.01	0.08 - 12.5
Route 70	<10	9	33	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-

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Table 7d. Interview Study Analysis of Public Water Indices: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	12	46	1.0	-
	10 - 49.9	1	6	0.60	0.06 - 6.23
	50+	0	0	-	-
Holly Street	<10	8	31	1.0	-
	10 - 49.9	3	13	0.90	0.22 - 3.69
	50+	2	8	0.98	0.18 - 5.40
Indian Head	<10	12	48	1.0	-
	10 - 49.9	1	4	1.00	0.11 - 8.95
	50+	0	0	-	-
Parkway	<10	4	23	1.0	-
	10 - 49.9	8	23	1.95	0.52 - 7.30
	50+	1	6	0.99	0.09 - 11.5
Route 70	<10	13	49	1.0	-
	10 - 49.9	0	3	0	-
	50+	0	0	-	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	12	49	1.0	-
	10 - 49.9	1	2	2.45	0.14 - 42.6
	50+	0	0	-	-
Holly Street	<10	10	39	1.0	-
	10 - 49.9	0	5	0	-
	50+	3	7	1.59	0.36 - 7.10
Indian Head	<10	13	50	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-
Parkway	<10	10	41	1.0	-
	10 - 49.9	1	5	0.95	0.08 - 11.1
	50+	2	5	1.74	0.25 - 12.2
Route 70	<10	13	50	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	12	46	1.0	-
	10 - 49.9	1	6	0.60	0.06 - 6.23
	50+	0	0	-	-
Holly Street	<10	8	31	1.0	-
	10 - 49.9	3	14	0.85	0.22 - 3.33
	50+	2	7	1.11	0.20 - 6.17
Indian Head	<10	12	47	1.0	-
	10 - 49.9	1	5	0.79	0.08 - 7.28
	50+	0	0	-	-
Parkway	<10	3	22	1.0	-
	10 - 49.9	9	25	2.59	0.63 - 10.7
	50+	1	5	1.59	0.13 - 20.0
Route 70	<10	13	49	1.0	-
	10 - 49.9	0	3	0	-
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	4	16	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Holly Street	<10	1	11	1.0	-
	10 - 49.9	2	1	12.9	0.72 - 232
	50+	1	4	2.99	0.17 - 53.5
Indian Head	<10	4	15	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-
Parkway	<10	1	8	1.0	-
	10 - 49.9	3	6	2.96	0.29 - 29.9
	50+	0	2	0	-
Route 70	<10	4	15	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	4	16	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Holly Street	<10	2	11	1.0	-
	10 - 49.9	0	2	0	-
	50+	2	3	3.37	0.27 - 42.3
Indian Head	<10	4	15	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-
Parkway	<10	2	11	1.0	-
	10 - 49.9	1	3	2.43	0.10 - 56.7
	50+	1	2	3.42	0.16 - 73.8
Route 70	<10	4	15	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-

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Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	4	16	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Holly Street	<10	1	11	1.0	-
	10 - 49.9	2	3	5.11	0.44 - 58.9
	50+	1	2	5.37	0.20 - 142
Indian Head	<10	4	14	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Parkway	<10	0	8	-	-
	10 - 49.9	4	7	-	-
	50+	0	1	-	-
Route 70	<10	4	15	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	0	-	-

Table 7: page 24 of 24

Table 8a. Interview Study Analysis of Public Water Indices by Sex: Leukemia and Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	19	68	1.0	-	18	76	1.0	-
	10 - 49.9	1	10	0.24	0.02 - 2.44	2	3	2.67	0.45 - 16.0
	50+	0	1	0	-	0	0	-	-
Holly Street	<10	13	46	1.0	-	13	41	1.0	-
	10 - 49.9	5	24	0.75	0.25 - 2.23	6	29	0.65	0.22 - 1.95
	50+	2	9	0.79	0.15 - 4.22	1	9	0.36	0.04 - 3.05
Indian Head	<10	19	72	1.0	-	19	74	1.0	-
	10 - 49.9	1	7	0.57	0.07 - 4.64	1	5	0.80	0.09 - 6.85
	50+	0	0	-	-	0	0	-	-
Parkway	<10	7	28	1.0	-	7	21	1.0	-
	10 - 49.9	12	38	1.30	0.43 - 3.91	7	43	0.48	0.15 - 1.56
	50+	1	13	0.29	0.03 - 2.64	6	15	1.25	0.36 - 4.29
Route 70	<10	20	70	1.0	-	18	70	1.0	-
	10 - 49.9	0	6	0	-	1	7	0.55	0.07 - 4.71
	50+	0	3	0	-	1	2	2.00	0.18 - 22.1

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	18	70	1.0	-	18	75	1.0	-
	10 - 49.9	2	7	1.05	0.16 - 6.89	2	4	2.17	0.35 - 13.5
	50+	0	1	0	-	0	0	-	-
Holly Street	<10	16	60	1.0	-	15	56	1.0	-
	10 - 49.9	1	8	0.48	0.06 - 3.99	3	11	1.03	0.22 - 4.88
	50+	3	10	1.16	0.25 - 5.32	2	12	0.65	0.14 - 3.13
Indian Head	<10	20	77	1.0	-	19	75	1.0	-
	10 - 49.9	0	1	0	-	1	4	1.00	0.11 - 8.95
	50+	0	0	-	-	0	0	-	-
Parkway	<10	15	59	1.0	-	11	51	1.0	-
	10 - 49.9	3	9	1.36	0.24 - 7.56	2	15	0.61	0.11 - 3.28
	50+	2	10	0.80	0.14 - 4.49	7	13	2.39	0.77 - 7.40
Route 70	<10	19	73	1.0	-	17	74	1.0	-
	10 - 49.9	1	3	1.11	0.10 - 12.8	2	4	2.00	0.37 - 10.9
	50+	0	2	0	-	1	1	4.00	0.25 - 64.0

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	20	68	1.0	-	18	76	1.0	-
	10 - 49.9	0	10	0	-	2	3	2.67	0.45 - 16.0
	50+	0	1	0	-	0	0	-	-
Holly Street	<10	12	46	1.0	-	12	40	1.0	-
	10 - 49.9	6	24	0.96	0.33 - 2.80	6	27	0.74	0.25 - 2.18
	50+	2	9	0.84	0.16 - 4.34	2	12	0.53	0.09 - 2.93
Indian Head	<10	19	72	1.0	-	20	73	1.0	-
	10 - 49.9	1	7	0.57	0.07 - 4.64	0	6	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	7	26	1.0	-	7	20	1.0	-
	10 - 49.9	12	38	1.16	0.39 - 3.40	7	42	0.47	0.15 - 1.54
	50+	1	15	0.24	0.03 - 2.17	6	17	1.05	0.30 - 3.67
Route 70	<10	20	69	1.0	-	19	68	1.0	-
	10 - 49.9	0	6	0	-	0	9	0	-
	50+	0	4	0	-	1	2	1.81	0.16 - 20.1

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	5	21	1.0	-	12	46	1.0	-
	10 - 49.9	1	2	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	3	15	1.0	-	8	24	1.0	-
	10 - 49.9	2	6	1.65	0.22 - 12.6	3	16	0.54	0.11 - 2.62
	50+	1	2	3.11	0.14 - 67.1	1	7	0.44	0.05 - 4.01
Indian Head	<10	6	22	1.0	-	11	45	1.0	-
	10 - 49.9	0	1	0	-	1	2	2.00	0.18 - 22.1
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	8	0	-	5	15	1.0	-
	10 - 49.9	4	10	4.09	0.28 - 59.4	4	23	0.52	0.11 - 2.38
	50+	1	5	1.51	0.08 - 28.7	3	9	1.00	0.21 - 4.71
Route 70	<10	6	19	1.0	-	10	42	1.0	-
	10 - 49.9	0	3	0	-	1	4	1.00	0.11 - 8.95
	50+	0	1	0	-	1	1	4.00	0.25 - 64.0

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	4	21	1.0	-	12	44	1.0	-
	10 - 49.9	2	2	-	-	0	3	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	4	16	1.0	-	9	32	1.0	-
	10 - 49.9	1	4	1.00	0.10 - 9.76	2	8	0.85	0.13 - 5.43
	50+	1	3	1.27	0.10 - 16.3	1	7	0.53	0.06 - 4.80
Indian Head	<10	6	22	1.0	-	11	45	1.0	-
	10 - 49.9	0	1	0	-	1	2	2.00	0.18 - 22.1
	50+	0	0	-	-	0	0	-	-
Parkway	<10	2	11	1.0	-	6	27	1.0	-
	10 - 49.9	3	8	1.96	0.27 - 14.0	1	13	0.33	0.03 - 3.14
	50+	1	4	1.33	0.08 - 23.1	5	7	2.80	0.68 - 11.5
Route 70	<10	6	18	1.0	-	10	43	1.0	-
	10 - 49.9	0	3	0	-	1	3	1.33	0.14 - 12.8
	50+	0	2	0	-	1	1	4.00	0.25 - 64.0

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	6	21	1.0	-	12	46	1.0	-
	10 - 49.9	0	2	0	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	2	15	1.0	-	7	23	1.0	-
	10 - 49.9	3	6	5.26	0.48 - 58.2	3	16	0.62	0.13 - 2.94
	50+	1	2	4.50	0.23 - 88.8	2	8	0.80	0.12 - 5.28
Indian Head	<10	6	22	1.0	-	12	44	1.0	-
	10 - 49.9	0	1	0	-	0	3	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	8	1.0	-	5	15	1.0	-
	10 - 49.9	4	8	5.02	0.33 - 75.9	4	22	0.55	0.12 - 2.50
	50+	1	7	1.29	0.07 - 22.9	3	10	0.89	0.18 - 4.41
Route 70	<10	6	18	1.0	-	11	41	1.0	-
	10 - 49.9	0	4	0	-	0	5	0	-
	50+	0	1	0	-	1	1	3.46	0.22 - 55.8

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Table 8b. Interview Study Analysis of Public Water Indices by Sex: Leukemia

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 19									
Brookside	<10	9	33	1.0	-	12	48	1.0	-
	10 - 49.9	0	2	0	-	1	3	1.33	0.14 - 12.8
	50+	0	1	0	-	0	0	-	-
Holly Street	<10	7	20	0	-	9	28	1.0	-
	10 - 49.9	2	13	0.42	0.08 - 2.25	4	18	0.70	0.19 - 2.54
	50+	0	3	0	-	0	5	0	-
Indian Head	<10	9	32	1.0	-	13	47	1.0	-
	10 - 49.9	0	4	0	-	0	4	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	3	9	1.0	-	6	13	1.0	-
	10 - 49.9	5	21	0.73	0.15 - 3.49	3	26	0.26	0.06 - 1.18
	50+	1	6	0.47	0.03 - 6.55	4	12	0.78	0.19 - 3.15
Route 70	<10	9	28	1.0	-	12	44	1.0	-
	10 - 49.9	0	5	0	-	0	5	0	-
	50+	0	3	0	-	1	2	2.00	0.18 - 22.1

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Brookside	<10	8	32	1.0	-	12	48	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8	1	3	1.40	0.12 - 16.4
	50+	0	1	0	-	0	0	-	-
Holly Street	<10	8	29	1.0	-	10	38	1.0	-
	10 - 49.9	0	3	0	-	2	5	1.81	0.22 - 14.8
	50+	1	4	1.00	0.03 - 32.0	1	8	0.52	0.06 - 4.44
Indian Head	<10	9	35	1.0	-	13	48	1.0	-
	10 - 49.9	0	1	0	-	0	3	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	7	28	1.0	-	8	34	1.0	-
	10 - 49.9	0	2	0	-	1	8	0.51	0.05 - 4.93
	50+	2	6	1.31	0.18 - 9.58	4	9	1.85	0.46 - 7.45
Route 70	<10	8	31	1.0	-	11	47	1.0	-
	10 - 49.9	1	3	1.11	0.10 - 12.8	1	3	1.33	0.14 - 12.8
	50+	0	2	0	-	1	1	4.00	0.25 - 64.0

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Brookside	<10	9	33	1.0	-	12	48	1.0	-
	10 - 49.9	0	2	0	-	1	3	1.33	0.14 - 12.8
	50+	0	1	0	-	0	0	-	-
Holly Street	<10	6	19	1.0	-	8	29	1.0	-
	10 - 49.9	3	14	0.63	0.13 - 2.97	4	16	0.93	0.24 - 3.49
	50+	0	3	0	-	1	6	0.63	0.07 - 5.94
Indian Head	<10	9	32	1.0	-	13	47	1.0	-
	10 - 49.9	0	4	0	-	0	4	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	3	8	1.0	-	6	11	1.0	-
	10 - 49.9	5	21	0.65	0.14 - 3.09	3	25	0.22	0.04 - 1.05
	50+	1	7	0.35	0.03 - 4.76	4	15	0.52	0.13 - 2.20
Route 70	<10	9	28	1.0	-	12	42	1.0	-
	10 - 49.9	0	4	0	-	0	7	0	-
	50+	0	4	0	-	1	2	1.81	0.16 - 20.1

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 4									
Brookside	<10	2	8	1.0	-	7	26	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	2	6	1.0	-	6	14	1.0	-
	10 - 49.9	0	2	0	-	1	10	0.26	0.03 - 2.43
	50+	0	0	-	-	0	3	0	-
Indian Head	<10	2	7	1.0	-	7	26	1.0	-
	10 - 49.9	0	1	0	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	0	2	1.0	-	4	9	1.0	-
	10 - 49.9	1	4	-	-	1	12	0.20	0.02 - 2.05
	50+	1	2	-	-	2	6	0.76	0.13 - 4.30
Route 70	<10	2	4	1.0	-	6	23	1.0	-
	10 - 49.9	0	3	0	-	0	3	0	-
	50+	0	1	0	-	1	1	4.00	0.25 - 64.0

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Brookside	<10	1	8	1.0	-	7	25	1.0	-
	10 - 49.9	1	0	-	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	2	7	1.0	-	6	20	1.0	-
	10 - 49.9	0	1	0	-	1	3	1.00	0.08 - 11.9
	50+	0	0	-	-	0	4	0	-
Indian Head	<10	2	7	1.0	-	7	26	1.0	-
	10 - 49.9	0	1	0	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	4	1.0	-	4	16	1.0	-
	10 - 49.9	0	2	0	-	0	7	0	-
	50+	1	2	-	-	3	4	2.35	0.45 - 12.2
Route 70	<10	2	3	1.0	-	6	24	1.0	-
	10 - 49.9	0	3	0	-	0	2	0	-
	50+	0	2	0	-	1	1	4.00	0.25 - 64.0

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Brookside	<10	2	8	1.0	-	7	26	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	1	5	1.0	-	5	15	1.0	-
	10 - 49.9	1	3	-	-	1	9	0.31	0.03 - 3.57
	50+	0	0	-	-	1	3	1.04	0.11 - 10.2
Indian Head	<10	2	7	1.0	-	7	26	1.0	-
	10 - 49.9	0	1	0	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	0	2	0	-	4	8	1.0	-
	10 - 49.9	1	3	-	-	1	11	0.17	0.01 - 2.04
	50+	1	3	-	-	2	8	0.46	0.07 - 3.22
Route 70	<10	2	4	1.0	-	6	22	1.0	-
	10 - 49.9	0	3	0	-	0	4	0	-
	50+	0	1	0	-	1	1	3.46	0.22 - 55.8

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Table 8c. Interview Study Analysis of Public Water Indices by Sex: Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	10	35	1.0	-	6	28	1.0	-
	10 - 49.9	1	8	0.30	0.03 - 3.38	1	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	6	26	1.0	-	4	13	1.0	-
	10 - 49.9	3	11	1.13	0.27 - 4.79	2	11	0.55	0.07 - 4.16
	50+	2	6	1.45	0.24 - 8.78	1	4	0.77	0.07 - 9.00
Indian Head	<10	10	40	1.0	-	6	27	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-
Parkway	<10	4	19	1.0	-	1	8	1.0	-
	10 - 49.9	7	17	2.38	0.51 - 11.0	4	17	1.89	0.18 - 20.0
	50+	0	7	0	-	2	3	6.97	0.31 - 159
Route 70	<10	11	42	1.0	-	6	26	1.0	-
	10 - 49.9	0	1	0	-	1	2	2.00	0.18 - 22.1
	50+	0	0	-	-	0	0	-	-

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	10	38	1.0	-	6	27	1.0	-
	10 - 49.9	1	4	0.71	0.04 - 13.8	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	8	31	1.0	-	5	18	1.0	-
	10 - 49.9	1	5	0.78	0.08 - 7.47	1	6	0.55	0.05 - 6.66
	50+	2	6	1.26	0.23- 6.85	1	4	0.84	0.08 - 9.26
Indian Head	<10	11	42	1.0	-	6	27	1.0	-
	10 - 49.9	0	0	-	-	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-
Parkway	<10	8	31	1.0	-	3	17	1.0	-
	10 - 49.9	3	7	1.71	0.24 - 11.9	1	7	0.87	0.06 - 12.6
	50+	0	4	0	-	3	4	4.01	0.56 - 28.8
Route 70	<10	11	42	1.0	-	6	27	1.0	-
	10 - 49.9	0	0	-	-	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	11	35	1.0	-	6	28	1.0	-
	10 - 49.9	0	8	0	-	1	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	6	27	1.0	-	4	11	1.0	-
	10 - 49.9	3	10	1.28	0.31 - 5.40	2	11	0.48	0.07 - 3.18
	50+	2	6	1.41	0.25 - 7.99	1	6	0.36	0.02 - 5.46
Indian Head	<10	10	40	1.0	-	7	26	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8	0	2	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	4	18	1.0	-	1	9	1.0	-
	10 - 49.9	7	17	2.06	0.46 - 9.26	4	17	2.11	0.21 - 21.2
	50+	0	8	0	-	2	2	10.8	0.46 - 255
Route 70	<10	11	41	1.0	-	7	26	1.0	-
	10 - 49.9	0	2	0	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	3	13	1.0	-	5	20	1.0	-
	10 - 49.9	1	2	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	1	9	1.0	-	2	10	1.0	-
	10 - 49.9	2	4	3.66	0.30 - 45.1	2	6	1.93	0.16 - 22.6
	50+	1	2	5.14	0.17 - 155	1	4	1.36	0.10 - 18.6
Indian Head	<10	4	15	1.0	-	4	19	1.0	-
	10 - 49.9	0	0	-	-	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	6	1.0	-	1	6	1.0	-
	10 - 49.9	3	6	-	-	3	11	1.64	0.14 - 19.2
	50+	0	3	0	-	1	3	2.14	0.07 - 61.2
Route 70	<10	4	15	1.0	-	4	19	1.0	-
	10 - 49.9	0	0	-	-	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	3	13	1.0	-	5	19	1.0	-
	10 - 49.9	1	2	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	2	9	1.0	-	3	12	1.0	-
	10 - 49.9	1	3	1.37	0.12 - 15.5	1	5	0.79	0.05 - 11.6
	50+	1	3	1.42	0.10 - 19.4	1	3	1.29	0.09 - 17.7
Indian Head	<10	4	15	1.0	-	4	19	1.0	-
	10 - 49.9	0	0	-	-	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	7	-	-	2	11	1.0	-
	10 - 49.9	3	6	3.25	0.28 - 37.2	1	6	1.14	0.06 - 23.5
	50+	0	2	0	-	2	3	4.53	0.28 - 72.2
Route 70	<10	4	15	1.0	-	4	19	1.0	-
	10 - 49.9	0	0	-	-	1	1	4.00	0.25 - 64.0
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	4	13	1.0	-	5	20	1.0	-
	10 - 49.9	0	2	0	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	1	10	1.0	-	2	8	1.0	-
	10 - 49.9	2	3	4.89	0.42 - 57.2	2	7	1.08	0.12 - 10.2
	50+	1	2	4.27	0.22 - 84.6	1	5	0.77	0.04 - 15.2
Indian Head	<10	4	15	1.0	-	5	18	1.0	-
	10 - 49.9	0	0	-	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	6	1.0	-	1	7	1.0	-
	10 - 49.9	3	5	-	-	3	11	1.87	0.17 - 20.9
	50+	0	4	0	-	1	2	3.80	0.12 - 118
Route 70	<10	4	14	1.0	-	5	19	1.0	-
	10 - 49.9	0	1	0	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-

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Table 8d. Interview Study Analysis of Public Water Indices by Sex: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	8	26	1.0	-	4	20	1.0	-
	10 - 49.9	0	6	0	-	1	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	5	19	1.0	-	3	12	1.0	-
	10 - 49.9	1	8	0.51	0.06 - 4.58	2	5	1.69	0.22 - 13.2
	50+	2	5	1.53	0.24 - 9.93	0	3	0	-
Indian Head	<10	7	29	1.0	-	5	19	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	3	16	1.0	-	1	7	1.0	-
	10 - 49.9	5	12	2.12	0.43 - 10.4	3	11	1.87	0.18 - 19.8
	50+	0	4	0	-	1	2	3.96	0.12 - 125
Route 70	<10	8	31	1.0	-	5	18	1.0	-
	10 - 49.9	0	1	0	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	8	29	1.0	-	4	20	1.0	-
	10 - 49.9	0	2	0	-	1	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	6	24	1.0	-	4	15	1.0	-
	10 - 49.9	0	3	0	-	0	2	0	-
	50+	2	4	2.00	0.31 - 12.8	1	3	1.09	0.09 - 13.3
Indian Head	<10	8	31	1.0	-	5	19	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	7	27	1.0	-	3	14	1.0	-
	10 - 49.9	1	2	1.73	0.11 - 27.9	0	3	0	-
	50+	0	2	0	-	2	3	2.34	0.28 - 19.4
Route 70	<10	8	31	1.0	-	5	19	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	8	26	1.0	-	4	20	1.0	-
	10 - 49.9	0	6	0	-	1	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	5	20	1.0	-	3	11	1.0	-
	10 - 49.9	1	8	0.53	0.06 - 4.73	2	6	1.16	0.19 - 7.23
	50+	2	4	1.91	0.30 - 12.1	0	3	0	-
Indian Head	<10	7	29	1.0	-	5	18	1.0	-
	10 - 49.9	1	3	1.33	0.14 - 12.8	0	2	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	3	15	1.0	-	0	7	0	-
	10 - 49.9	5	13	1.82	0.38 - 8.65	4	12	-	-
	50+	0	4	0	-	1	1	-	-
Route 70	<10	8	31	1.0	-	5	18	1.0	-
	10 - 49.9	0	1	0	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	1	4	1.0	-	3	12	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	0	2	0	-	1	9	1.0	-
	10 - 49.9	0	1	-	-	2	0	-	-
	50+	1	1	-	-	0	3	0	-
Indian Head	<10	1	4	1.0	-	3	11	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	0	3	0	-	1	5	1.0	-
	10 - 49.9	1	1	-	-	2	5	1.64	0.14 - 19.2
	50+	0	0	-	-	0	2	0	-
Route 70	<10	1	4	1.0	-	3	11	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	1	4	1.0	-	3	12	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	0	2	0	-	2	9	1.0	-
	10 - 49.9	0	1	-	-	0	1	0	-
	50+	1	1	-	-	1	2	2.00	0.11 - 37.8
Indian Head	<10	1	4	1.0	-	3	11	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	0	3	0	-	2	8	1.0	-
	10 - 49.9	1	1	-	-	0	2	0	-
	50+	0	0	-	-	1	2	1.41	0.06 - 33.2
Route 70	<10	1	4	1.0	-	3	11	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-

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Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	1	4	1.0	-	3	12	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	0	3	0	-	1	8	1.0	-
	10 - 49.9	0	1	-	-	2	2	4.70	0.41 - 54.4
	50+	1	0	-	-	0	2	0	-
Indian Head	<10	1	4	1.0	-	3	10	1.0	-
	10 - 49.9	0	0	-	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	0	3	0	-	0	5	0	-
	10 - 49.9	1	1	-	-	3	6	-	-
	50+	0	0	-	-	0	1	-	-
Route 70	<10	1	4	1.0	-	3	11	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	0	-	-	0	0	-	-

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Table 9a. Interview Study Analysis of Time-specific Public Water Indices: Leukemia and Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	21	73	1.0	-
	10 - 49.9	13	68	0.60	0.24 - 1.45
	50+	6	18	1.11	0.34 - 3.58
Holly Street (prior to 1976)	<10	37	143	1.0	-
	10 - 49.9	3	15	0.71	0.17 - 3.05
	50+	0	1	0	-
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	31	124	1.0	-
	10 - 49.9	4	21	0.76	0.21 - 2.83
	50+	5	13	1.59	0.46 - 5.47
Holly Street (prior to 1976)	<10	38	148	1.0	-
	10 - 49.9	1	0	-	-
	50+	1	10	0.55	0.07 - 4.71
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	21	72	1.0	-
	10 - 49.9	13	65	0.61	0.25 - 1.49
	50+	6	22	0.84	0.27 - 2.63
Holly Street (prior to 1976)	<10	37	144	1.0	-
	10 - 49.9	3	14	0.80	0.20 - 3.24
	50+	0	1	0	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	8	26	1.0	-
	10 - 49.9	6	33	0.55	0.14 - 2.07
	50+	4	12	1.08	0.25 - 4.65
Holly Street (prior to 1976)	<10	18	71	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	11	42	1.0	-
	10 - 49.9	3	20	0.57	0.13 - 2.50
	50+	4	8	1.87	0.46 - 7.66
Holly Street (prior to 1976)	<10	18	71	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	8	26	1.0	-
	10 - 49.9	6	30	0.62	0.17 - 2.31
	50+	4	15	0.83	0.19 - 3.53
Holly Street (prior to 1976)	<10	18	71	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 9: page 2 of 8

Table 9b. Interview Study Analysis of Time-specific Public Water Indices: Leukemia

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	11	37	1.0	-
	10 - 49.9	6	38	0.49	0.15 - 1.62
	50+	5	13	1.19	0.31 - 4.61
Holly Street (prior to 1976)	<10	21	78	1.0	-
	10 - 49.9	1	10	0.25	0.02 - 2.75
	50+	0	0	-	-
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	17	70	1.0	-
	10 - 49.9	1	9	0.47	0.05 - 4.31
	50+	4	8	2.17	0.50 - 9.39
Holly Street (prior to 1976)	<10	21	80	1.0	-
	10 - 49.9	1	0	-	-
	50+	0	8	0	-
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	11	35	1.0	-
	10 - 49.9	6	36	0.46	0.14 - 1.54
	50+	5	17	0.78	0.21 - 2.97
Holly Street (prior to 1976)	<10	21	79	1.0	-
	10 - 49.9	1	9	0.35	0.04 - 3.33
	50+	0	0	-	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	4	12	1.0	-
	10 - 49.9	2	17	0.38	0.06 - 2.36
	50+	3	7	1.23	0.21 - 7.28
Holly Street (prior to 1976)	<10	9	36	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	6	22	1.0	-
	10 - 49.9	0	9	0	-
	50+	3	4	2.24	0.44 - 11.5
Holly Street (prior to 1976)	<10	9	36	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	4	11	1.0	-
	10 - 49.9	2	15	0.37	0.05 - 2.49
	50+	3	10	0.72	0.12 - 4.47
Holly Street (prior to 1976)	<10	9	36	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 9: page 4 of 8

Table 9c. Interview Study Analysis of Time-specific Public Water Indices: Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	10	36	1.0	-
	10 - 49.9	7	30	0.79	0.20 - 3.07
	50+	1	5	0.68	0.06 - 7.99
Holly Street (prior to 1976)	<10	16	65	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4
	50+	0	1	0	-
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	14	54	1.0	-
	10 - 49.9	3	12	0.92	0.16 - 5.23
	50+	1	5	0.74	0.06 - 8.73
Holly Street (prior to 1976)	<10	17	68	1.0	-
	10 - 49.9	0	0	-	-
	50+	1	2	2.00	0.18 - 22.1
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	10	37	1.0	-
	10 - 49.9	7	29	0.87	0.23 - 3.30
	50+	1	5	0.72	0.07 - 7.85
Holly Street (prior to 1976)	<10	16	65	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4
	50+	0	1	0	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	4	14	1.0	-
	10 - 49.9	4	16	0.91	0.13 - 6.53
	50+	1	5	0.72	0.06 - 9.21
Holly Street (prior to 1976)	<10	9	35	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	5	20	1.0	-
	10 - 49.9	3	11	1.21	0.18 - 8.15
	50+	1	4	1.12	0.08 - 16.6
Holly Street (prior to 1976)	<10	9	35	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	4	15	1.0	-
	10 - 49.9	4	15	1.10	0.17 - 7.27
	50+	1	5	0.80	0.07 - 9.70
Holly Street (prior to 1976)	<10	9	35	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 9: page 6 of 8

Table 9d. Interview Study Analysis of Time-specific Public Water Indices: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through					
Parkway (1982 and later)	<10	8	30	1.0	-
	10 - 49.9	5	20	0.87	0.21 - 3.56
	50+	0	2	0	-
Holly Street (prior to 1976)	<10	11	46	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4
	50+	0	1	0	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	12	45	1.0	-
	10 - 49.9	1	4	0.60	0.05 - 7.70
	50+	0	3	0	-
Holly Street (prior to 1976)	<10	12	49	1.0	-
	10 - 49.9	0	0	-	-
	50+	1	2	2.00	0.18 - 22.1
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	7	30	1.0	-
	10 - 49.9	6	21	1.28	0.27 - 5.98
	50+	0	1	0	-
Holly Street (prior to 1976)	<10	11	46	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4
	50+	0	1	0	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	2	8	1.0	-
	10 - 49.9	2	6	1.17	0.14 - 9.63
	50+	0	2	0	-
Holly Street (prior to 1976)	<10	4	16	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	3	11	1.0	-
	10 - 49.9	1	3	0.87	0.05 - 15.4
	50+	0	2	0	-
Holly Street (prior to 1976)	<10	4	16	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	1	8	0	-
	10 - 49.9	3	7	3.46	0.27 - 43.9
	50+	0	1	0	-
Holly Street (prior to 1976)	<10	4	16	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 9: page 8 of 8

Table 10a. Interview Study Analysis of Time-specific Public Water Indices by Sex: Leukemia and Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	17	67	1.0	-	20	76	1.0	-
	10 - 49.9	3	11	1.10	0.23 - 5.21	0	4	0	-
	50+	0	1	0	-	0	0	-	-
Parkway (1982 and later)	<10	12	45	1.0	-	9	28	1.0	-
	10 - 49.9	7	27	0.94	0.24 - 3.66	6	41	0.41	0.12 - 1.39
	50+	1	7	0.46	0.04 - 5.38	5	11	1.37	0.36 - 5.20
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	18	72	1.0	-	20	76	1.0	-
	10 - 49.9	1	0	-	-	0	0	-	-
	50+	1	6	1.33	0.14 - 12.8	0	4	0	-
Parkway (1982 and later)	<10	18	68	1.0	-	13	56	1.0	-
	10 - 49.9	2	7	1.11	0.15 - 8.22	2	14	0.68	0.12 - 3.91
	50+	0	4	0	-	5	9	2.63	0.62 - 11.2
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	17	68	1.0	-	20	76	1.0	-
	10 - 49.9	3	10	1.23	0.28 - 5.50	0	4	0	-
	50+	0	1	0	-	0	0	-	-
Parkway (1982 and later)	<10	12	44	1.0	-	9	28	1.0	-
	10 - 49.9	7	26	0.88	0.22 - 3.46	6	39	0.44	0.13 - 1.47
	50+	1	9	0.35	0.03 - 3.83	5	13	1.15	0.29 - 4.50

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	6	23	1.0	-	12	48	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	10	1.0	-	6	16	1.0	-
	10 - 49.9	3	9	2.88	0.18 - 45.7	3	24	0.29	0.05 - 1.57
	50+	1	4	1.70	0.08 - 37.7	3	8	0.92	0.19 - 4.43
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	6	23	1.0	-	12	48	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	4	14	1.0	-	7	28	1.0	-
	10 - 49.9	2	7	1.11	0.15 - 8.22	1	13	0.31	0.03 - 3.04
	50+	0	2	0	-	4	6	2.48	0.49 - 12.5
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	6	23	1.0	-	12	48	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	10	1.0	-	6	16	1.0	-
	10 - 49.9	3	7	3.82	0.23 - 63.2	3	23	0.32	0.06 - 1.60
	50+	1	6	1.30	0.07 - 24.4	3	9	0.78	0.15 - 4.10

Table 10: page 2 of 8

Table 10b. Interview Study Analysis of Time-specific Public Water Indices by Sex: Leukemia

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	8	30	1.0	-	13	48	1.0	-
	10 - 49.9	1	6	0.47	0.03 - 7.50	0	4	0	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	4	17	1.0	-	7	20	1.0	-
	10 - 49.9	4	14	1.28	0.18 - 9.32	2	24	0.22	0.04 - 1.24
	50+	1	5	0.88	0.05 - 16.8	4	8	1.23	0.29 - 5.21
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	8	32	1.0	-	13	48	1.0	-
	10 - 49.9	1	0	-	-	0	0	-	-
	50+	0	4	0	-	0	4	0	-
Parkway (1982 and later)	<10	9	31	1.0	-	8	39	1.0	-
	10 - 49.9	0	2	0	-	1	7	0.82	0.08 - 8.78
	50+	0	3	0	-	4	5	4.99	0.80 - 31.2
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	8	31	1.0	-	13	48	1.0	-
	10 - 49.9	1	5	0.72	0.06 - 9.12	0	4	0	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	4	16	1.0	-	7	19	1.0	-
	10 - 49.9	4	14	1.10	0.15 - 8.27	2	22	0.22	0.04 - 1.28
	50+	1	6	0.65	0.04 - 11.1	4	11	0.83	0.18 - 3.77

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	2	8	1.0	-	7	28	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	0	2	0	-	4	10	1.0	-
	10 - 49.9	1	4	-	-	1	13	0.20	0.02 - 2.04
	50+	1	2	-	-	2	5	0.89	0.14 - 5.44
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	2	8	1.0	-	7	28	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	5	1.0	-	4	17	1.0	-
	10 - 49.9	0	2	0	-	0	7	0	-
	50+	0	1	0	-	3	3	3.22	0.52 - 20.1
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	2	8	1.0	-	7	28	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	0	2	0	-	4	9	1.0	-
	10 - 49.9	1	3	-	-	1	12	0.17	0.02 - 2.01
	50+	1	3	-	-	2	7	0.52	0.07 - 3.90

Table 10: page 4 of 8

Table 10c. Interview Study Analysis of Time-specific Public Water Indices by Sex: Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	9	37	1.0	-	7	28	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4	0	0	-	-
	50+	0	1	0	-	0	0	-	-
Parkway (1982 and later)	<10	8	28	1.0	-	2	8	1.0	-
	10 - 49.9	3	13	0.81	0.11 - 5.95	4	17	0.93	0.13 - 6.91
	50+	0	2	0	-	1	3	1.43	0.07 - 30.6
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	10	40	1.0	-	7	28	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	1	2	2.00	0.18 - 22.1	0	0	-	-
Parkway (1982 and later)	<10	9	37	1.0	-	5	17	1.0	-
	10 - 49.9	2	5	2.55	0.19 - 34.8	1	7	0.41	0.03 - 4.88
	50+	0	1	0	-	1	4	0.65	0.05 - 9.32
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	9	37	1.0	-	7	28	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4	0	0	-	-
	50+	0	1	0	-	0	0	-	-
Parkway (1982 and later)	<10	8	28	1.0	-	2	9	1.0	-
	10 - 49.9	3	12	0.81	0.11 - 5.95	4	17	1.05	0.15 - 7.47
	50+	0	3	0	-	1	2	2.54	0.11 - 59.2

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	4	15	1.0	-	5	20	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	8	1.0	-	2	6	1.0	-
	10 - 49.9	2	5	-	-	2	11	0.47	0.04 - 6.05
	50+	0	2	0	-	1	3	0.97	0.05 - 20.1
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	4	15	1.0	-	5	20	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	9	-	-	3	11	1.0	-
	10 - 49.9	2	5	2.55	0.19 - 34.8	1	6	0.58	0.04 - 9.30
	50+	0	1	0	-	1	3	1.08	0.05 - 25.1
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	4	15	1.0	-	5	20	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	8	1.0	-	2	7	1.0	-
	10 - 49.9	2	4	-	-	2	11	0.61	0.06 - 6.20
	50+	0	3	0	-	1	2	1.79	0.08 - 41.7

Table 10: page 6 of 8

Table 10d. Interview Study Analysis of Time-specific Public Water Indices by Sex: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	6	26	1.0	-	5	20	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4	0	0	-	-
	50+	0	1	0	-	0	0	-	-
Parkway (1982 and later)	<10	6	23	1.0	-	2	7	1.0	-
	10 - 49.9	2	9	0.81	0.11 - 5.95	3	11	0.93	0.13 - 6.91
	50+	0	0	-	-	0	2	0	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	7	29	1.0	-	5	20	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	1	2	2.00	0.18 - 22.1	0	0	-	-
Parkway (1982 and later)	<10	7	31	1.0	-	5	14	1.0	-
	10 - 49.9	1	1	-	-	0	3	0	-
	50+	0	0	-	-	0	3	0	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	6	26	1.0	-	5	20	1.0	-
	10 - 49.9	2	5	1.67	0.27 - 10.4	0	0	-	-
	50+	0	1	0	-	0	0	-	-
Parkway (1982 and later)	<10	6	23	1.0	-	1	7	1.0	-
	10 - 49.9	2	9	0.81	0.11 - 5.95	4	12	2.53	0.19 - 34.3
	50+	0	0	-	-	0	1	0	-

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	1	4	1.0	-	3	12	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	0	3	0	-	2	5	1.0	-
	10 - 49.9	1	1	-	-	1	5	0.47	0.04 - 6.05
	50+	0	0	-	-	0	2	0	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	1	4	1.0	-	3	12	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	0	3	0	-	3	8	1.0	-
	10 - 49.9	1	1	-	-	0	2	0	-
	50+	0	0	-	-	0	2	0	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	1	4	1.0	-	3	12	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	0	3	0	-	1	5	1.0	-
	10 - 49.9	1	1	-	-	2	6	1.63	0.08 - 34.6
	50+	0	0	-	-	0	1	0	-

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Table 11a. Interview Study Public Water Source/Consumption Analysis: Leukemia and Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	None/Low	36	145	1.0	-
	Medium	1	7	0.58	0.07 - 4.95
	High	3	5	2.84	0.51 - 15.8
Holly Street	None/Low	31	116	1.0	-
	Medium	4	20	0.80	0.23 - 2.82
	High	4	21	0.70	0.22 - 2.16
Indian Head	None/Low	38	152	1.0	-
	Medium	0	1	0	-
	High	1	4	1.33	0.14 - 12.8
Parkway	None/Low	25	110	1.0	-
	Medium	1	20	0.22	0.03 - 1.84
	High	13	27	2.45	1.03 - 5.83
Route 70	None/Low	35	147	1.0	-
	Medium	1	6	0.81	0.10 - 6.92
	High	3	4	4.94	0.79 - 30.8

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	None/Low	38	144	1.0	-
	Medium	0	8	0	-
	High	2	6	1.12	0.22 - 5.62
Holly Street	None/Low	24	86	1.0	-
	Medium	7	43	0.56	0.21 - 1.47
	High	8	29	1.02	0.41 - 2.54
Indian Head	None/Low	38	145	1.0	-
	Medium	1	9	0.57	0.07 - 4.64
	High	0	4	0	-
Parkway	None/Low	14	46	1.0	-
	Medium	8	62	0.45	0.18 - 1.17
	High	17	50	1.15	0.52 - 2.58
Route 70	None/Low	38	137	1.0	-
	Medium	1	13	0.29	0.04 - 2.33
	High	0	8	0	-

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	None/Low	16	65	1.0	-
	Medium	1	3	1.40	0.12 - 16.4
	High	1	2	-	-
Holly Street	None/Low	13	48	1.0	-
	Medium	2	13	0.64	0.12 - 3.42
	High	2	9	0.74	0.14 - 3.87
Indian Head	None/Low	16	67	1.0	-
	Medium	0	1	0	-
	High	1	2	4.00	0.25 - 64.0
Parkway	None/Low	7	38	1.0	-
	Medium	1	16	0.32	0.03 - 2.93
	High	9	16	4.19	1.17 - 15.0
Route 70	None/Low	15	61	1.0	-
	Medium	0	5	0	-
	High	2	4	2.67	0.35 - 20.5

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	None/Low	18	67	1.0	-
	Medium	0	2	0	-
	High	0	1	0	-
Holly Street	None/Low	9	38	1.0	-
	Medium	4	22	0.72	0.17 - 3.09
	High	4	10	1.78	0.43 - 7.35
Indian Head	None/Low	17	66	1.0	-
	Medium	0	3	0	-
	High	0	1	0	-
Parkway	None/Low	6	23	1.0	-
	Medium	2	27	0.33	0.06 - 1.79
	High	9	20	1.81	0.57 - 5.75
Route 70	None/Low	16	59	1.0	-
	Medium	1	7	0.57	0.07 - 5.05
	High	0	4	0	-

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Table 11b. Interview Study Public Water Source/Consumption Analysis: Leukemia

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Brookside	None/Low	20	80	1.0	-
	Medium	1	5	0.79	0.08 - 7.28
	High	1	2	2.00	0.18 - 22.1
Holly Street	None/Low	18	67	1.0	-
	Medium	2	11	0.62	0.11 - 3.61
	High	2	9	0.83	0.17 - 4.03
Indian Head	None/Low	22	83	1.0	-
	Medium	0	1	0	-
	High	0	3	0	-
Parkway	None/Low	15	62	1.0	-
	Medium	0	10	0	-
	High	7	15	1.80	0.64 - 5.10
Route 70	None/Low	19	78	1.0	-
	Medium	1	6	0.76	0.09 - 6.49
	High	2	3	3.05	0.40 - 23.0

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Brookside	None/Low	21	81	1.0	-
	Medium	0	3	0	-
	High	1	3	1.24	0.13 - 11.9
Holly Street	None/Low	14	48	1.0	-
	Medium	3	24	0.41	0.10 - 1.62
	High	5	15	1.23	0.36 - 4.16
Indian Head	None/Low	22	79	1.0	-
	Medium	0	4	0	-
	High	0	4	0	-
Parkway	None/Low	9	19	1.0	-
	Medium	2	39	0.11	0.02 - 0.58
	High	11	29	0.83	0.30 - 2.33
Route 70	None/Low	21	70	1.0	-
	Medium	1	10	0.35	0.04 - 2.83
	High	0	7	0	-

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Brookside	None/Low	8	33	1.0	-
	Medium	1	2	2.45	0.14 - 42.6
	High	0	0	-	-
Holly Street	None/Low	8	27	1.0	-
	Medium	1	5	0.64	0.06 - 6.52
	High	0	3	0	-
Indian Head	None/Low	9	33	1.0	-
	Medium	0	1	0	-
	High	0	1	0	-
Parkway	None/Low	5	20	1.0	-
	Medium	0	7	0	-
	High	4	8	2.01	0.45 - 8.91
Route 70	None/Low	8	27	1.0	-
	Medium	0	5	0	-
	High	1	3	1.09	0.09 - 13.3

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Brookside	None/Low	9	34	1.0	-
	Medium	0	1	0	-
	High	0	0	-	-
Holly Street	None/Low	6	20	1.0	-
	Medium	2	10	0.64	0.09 - 4.53
	High	1	5	0.68	0.06 - 7.28
Indian Head	None/Low	9	33	1.0	-
	Medium	0	1	0	-
	High	0	1	0	-
Parkway	None/Low	4	10	1.0	-
	Medium	0	15	0	-
	High	5	10	1.16	0.25 - 5.47
Route 70	None/Low	8	26	1.0	-
	Medium	1	6	0.57	0.07 - 5.05
	High	0	3	0	-

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Table 11c. Interview Study Public Water Source/Consumption Analysis: Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	None/Low	16	65	1.0	-
	Medium	0	2	0	-
	High	2	3	4.04	0.30 - 54.8
Holly Street	None/Low	13	49	1.0	-
	Medium	2	9	1.06	0.18 - 6.22
	High	2	12	0.60	0.12 - 3.00
Indian Head	None/Low	16	69	1.0	-
	Medium	0	0	-	-
	High	1	1	-	-
Parkway	None/Low	10	48	1.0	-
	Medium	1	10	0.64	0.05 - 7.41
	High	6	12	5.02	0.88 - 28.4
Route 70	None/Low	16	69	1.0	-
	Medium	0	0	-	-
	High	1	1	-	-

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	None/Low	17	63	1.0	-
	Medium	0	5	0	-
	High	1	3	1.02	0.10 - 10.0
Holly Street	None/Low	10	38	1.0	-
	Medium	4	19	0.80	0.21 - 3.13
	High	3	14	0.83	0.20 - 3.33
Indian Head	None/Low	16	66	1.0	-
	Medium	1	5	1.33	0.14 - 12.8
	High	0	0	-	-
Parkway	None/Low	5	27	1.0	-
	Medium	6	23	1.53	0.42 - 5.54
	High	6	21	1.68	0.45 - 6.26
Route 70	None/Low	17	67	1.0	-
	Medium	0	3	0	-
	High	0	1	0	-

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	None/Low	8	32	1.0	-
	Medium	0	1	0	-
	High	1	2	-	-
Holly Street	None/Low	5	21	1.0	-
	Medium	1	8	0.64	0.06 - 7.16
	High	2	6	1.16	0.19 - 7.23
Indian Head	None/Low	7	34	1.0	-
	Medium	0	0	-	-
	High	1	1	-	-
Parkway	None/Low	2	18	1.0	-
	Medium	1	9	1.00	0.06 - 16.9
	High	5	8	-	-
Route 70	None/Low	7	34	1.0	-
	Medium	0	0	-	-
	High	1	1	-	-

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	None/Low	9	33	1.0	-
	Medium	0	1	0	-
	High	0	1	0	-
Holly Street	None/Low	3	18	1.0	-
	Medium	2	12	0.87	0.10 - 7.17
	High	3	5	3.72	0.51 - 26.9
Indian Head	None/Low	8	33	1.0	-
	Medium	0	2	0	-
	High	0	0	-	-
Parkway	None/Low	2	13	1.0	-
	Medium	2	12	1.33	0.17 - 10.3
	High	4	10	2.99	0.48 - 18.5
Route 70	None/Low	8	33	1.0	-
	Medium	0	1	0	-
	High	0	1	0	-

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Table 11d. Interview Study Public Water Source/Consumption Analysis: Brain and Central Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	None/Low	12	49	1.0	-
	Medium	0	1	0	-
	High	1	1	3.46	0.22 - 55.8
Holly Street	None/Low	10	39	1.0	-
	Medium	1	4	1.80	0.16 - 20.2
	High	1	8	0.48	0.05 - 4.24
Indian Head	None/Low	12	50	1.0	-
	Medium	0	0	-	-
	High	0	1	0	-
Parkway	None/Low	9	41	1.0	-
	Medium	0	3	0	-
	High	3	7	3.46	0.53 - 22.6
Route 70	None/Low	12	50	1.0	-
	Medium	0	0	-	-
	High	0	1	0	-

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	None/Low	12	46	1.0	-
	Medium	0	4	0	-
	High	1	2	1.56	0.14 - 17.8
Holly Street	None/Low	8	31	1.0	-
	Medium	3	10	1.24	0.30 - 5.17
	High	1	11	0.38	0.04 - 3.22
Indian Head	None/Low	11	47	1.0	-
	Medium	1	5	1.33	0.14 - 12.8
	High	0	0	-	-
Parkway	None/Low	3	22	1.0	-
	Medium	6	15	3.17	0.71 - 14.2
	High	3	15	1.72	0.31 - 9.54
Route 70	None/Low	12	49	1.0	-
	Medium	0	3	0	-
	High	0	0	-	-

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	None/Low	4	16	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Holly Street	None/Low	2	11	1.0	-
	Medium	0	3	0	-
	High	1	2	2.00	0.11 - 37.8
Indian Head	None/Low	3	15	1.0	-
	Medium	0	0	-	-
	High	0	1	0	-
Parkway	None/Low	1	11	1.0	-
	Medium	0	2	0	-
	High	2	3	-	-
Route 70	None/Low	3	15	1.0	-
	Medium	0	0	-	-
	High	0	1	0	-

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Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	None/Low	4	16	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Holly Street	None/Low	1	11	1.0	-
	Medium	1	3	3.48	0.15 - 82.0
	High	1	2	5.09	0.28 - 94.2
Indian Head	None/Low	3	14	1.0	-
	Medium	0	2	0	-
	High	0	0	-	-
Parkway	None/Low	0	8	0	-
	Medium	2	4	-	-
	High	1	4	-	-
Route 70	None/Low	3	15	1.0	-
	Medium	0	1	0	-
	High	0	0	-	-

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Table 12a. Interview Study Analysis of Public Water Source/Consumption by Sex: Leukemia and Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	None/Low	18	70	1.0	-	18	75	1.0	-
	Medium	1	3	1.30	0.13 - 12.5	0	4	0	-
	High	1	5	0.57	0.04 - 7.97	2	0	-	-
Holly Street	None/Low	16	60	1.0	-	15	56	1.0	-
	Medium	1	8	0.45	0.05 - 4.25	3	12	1.14	0.23 - 5.75
	High	3	10	1.07	0.26 - 4.39	1	11	0.35	0.04 - 2.85
Indian Head	None/Low	20	77	1.0	-	18	75	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	1	0	-	1	3	2.00	0.18 - 22.1
Parkway	None/Low	15	59	1.0	-	10	51	1.0	-
	Medium	0	4	0	-	1	16	0.32	0.03 - 2.94
	High	5	15	1.42	0.34 - 5.88	8	12	3.43	1.14 - 10.4
Route 70	None/Low	19	73	1.0	-	16	74	1.0	-
	Medium	0	2	0	-	1	4	1.00	0.11 - 8.95
	High	1	3	1.09	0.09 - 13.3	2	1	-	-

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	None/Low	20	68	1.0	-	18	76	1.0	-
	Medium	0	6	0	-	0	2	0	-
	High	0	5	0	-	2	1	8.00	0.73 - 88.2
Holly Street	None/Low	12	46	1.0	-	12	40	1.0	-
	Medium	3	20	0.59	0.15 - 2.26	4	23	0.54	0.13 - 2.16
	High	5	13	1.46	0.43 - 4.95	3	16	0.65	0.16 - 2.74
Indian Head	None/Low	19	72	1.0	-	19	73	1.0	-
	Medium	1	5	0.80	0.09 - 6.85	0	4	0	-
	High	0	2	0	-	0	2	0	-
Parkway	None/Low	7	26	1.0	-	7	20	1.0	-
	Medium	4	28	0.55	0.15 - 2.07	4	34	0.37	0.10 - 1.43
	High	9	25	1.36	0.43 - 4.33	8	25	0.98	0.32 - 2.98
Route 70	None/Low	20	69	1.0	-	18	68	1.0	-
	Medium	0	4	0	-	1	9	0.47	0.05 - 4.02
	High	0	6	0	-	0	2	0	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	None/Low	4	21	1.0	-	12	44	1.0	-
	Medium	1	0	-	-	0	3	0	-
	High	1	2	-	-	0	0	-	-
Holly Street	None/Low	4	16	1.0	-	9	32	1.0	-
	Medium	0	3	0	-	2	10	0.74	0.12 - 4.69
	High	2	4	1.86	0.24 - 14.5	0	5	0	-
Indian Head	None/Low	6	22	1.0	-	10	45	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	1	0	-	1	1	-	-
Parkway	None/Low	2	11	1.0	-	5	27	1.0	-
	Medium	0	3	0	-	1	13	0.43	0.04 - 4.42
	High	4	9	3.91	0.34 - 44.3	5	7	4.41	0.98 - 19.8
Route 70	None/Low	6	18	1.0	-	9	43	1.0	-
	Medium	0	2	0	-	0	3	0	-
	High	0	3	0	-	2	1	-	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	None/Low	6	21	1.0	-	12	46	1.0	-
	Medium	0	1	0	-	0	1	0	-
	High	0	1	0	-	0	0	-	-
Holly Street	None/Low	2	15	1.0	-	7	23	1.0	-
	Medium	1	4	3.00	0.18 - 50.9	3	18	0.46	0.08 - 2.56
	High	3	4	8.96	0.53 - 152	1	6	0.63	0.06 - 6.16
Indian Head	None/Low	6	22	1.0	-	11	44	1.0	-
	Medium	0	0	-	-	0	3	0	-
	High	0	1	0	-	0	0	-	-
Parkway	None/Low	1	8	1.0	-	5	15	1.0	-
	Medium	0	5	0	-	2	22	0.33	0.06 - 1.88
	High	5	10	4.70	0.43 - 51.4	4	10	1.25	0.31 - 5.06
Route 70	None/Low	6	18	1.0	-	10	41	1.0	-
	Medium	0	2	0	-	1	5	1.00	0.10 - 10.1
	High	0	3	0	-	0	1	0	-

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Table 12b. Interview Study Analysis of Public Water Source/Consumption by Sex: Leukemia

Source Well Field	Water Source/Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Brookside	None/Low	8	32	1.0	-	12	48	1.0	-
	Medium	1	2	2.00	0.18 - 22.1	0	3	0	-
	High	0	2	0	-	1	0	-	-
Holly Street	None/Low	8	29	1.0	-	10	38	1.0	-
	Medium	0	4	0	-	2	7	1.16	0.17 - 7.68
	High	1	3	0.87	0.08 - 9.22	1	6	0.66	0.07 - 5.89
Indian Head	None/Low	9	35	1.0	-	13	48	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	1	0	-	0	2	0	-
Parkway	None/Low	7	28	1.0	-	8	34	1.0	-
	Medium	0	1	0	-	0	9	0	-
	High	2	7	1.16	0.17 - 7.89	5	8	2.22	0.62 - 7.93
Route 70	None/Low	8	31	1.0	-	11	47	1.0	-
	Medium	0	2	0	-	1	4	1.00	0.11 - 8.95
	High	1	3	1.09	0.09 - 13.3	1	0	-	-

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Brookside	None/Low	9	33	1.0	-	12	48	1.0	-
	Medium	0	1	0	-	0	2	0	-
	High	0	2	0	-	1	1	4.00	0.25 - 64.0
Holly Street	None/Low	6	19	1.0	-	8	29	1.0	-
	Medium	1	12	0.27	0.03 - 2.47	2	12	0.57	0.09 - 3.47
	High	2	5	1.20	0.17 - 8.54	3	10	1.21	0.25 - 5.84
Indian Head	None/Low	9	32	1.0	-	13	47	1.0	-
	Medium	0	2	0	-	0	2	0	-
	High	0	2	0	-	0	2	0	-
Parkway	None/Low	3	8	1.0	-	6	11	1.0	-
	Medium	1	16	0.20	0.02 - 1.97	1	23	0.07	0.01 - 0.73
	High	5	12	1.32	0.24 - 7.23	6	17	0.62	0.17 - 2.29
Route 70	None/Low	9	28	1.0	-	12	42	1.0	-
	Medium	0	3	0	-	1	7	0.54	0.06 - 4.77
	High	0	5	0	-	0	2	0	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Brookside	None/Low	1	8	1.0	-	7	25	1.0	-
	Medium	1	0	-	-	0	2	0	-
	High	0	0	-	-	0	0	-	-
Holly Street	None/Low	2	7	1.0	-	6	20	1.0	-
	Medium	0	0	-	-	1	5	0.64	0.06 - 6.52
	High	0	1	0	-	0	2	0	-
Indian Head	None/Low	2	7	1.0	-	7	26	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	1	0	-	0	0	-	-
Parkway	None/Low	1	4	1.0	-	4	16	1.0	-
	Medium	0	0	-	-	0	7	0	-
	High	1	4	1.00	0.03 - 32.0	3	4	2.35	0.45 - 12.2
Route 70	None/Low	2	3	1.0	-	6	24	1.0	-
	Medium	0	2	0	-	0	3	0	-
	High	0	3	0	-	1	0	-	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Brookside	None/Low	2	8	1.0	-	7	26	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	0	-	-	0	0	-	-
Holly Street	None/Low	1	5	1.0	-	5	15	1.0	-
	Medium	1	1	-	-	1	9	0.27	0.02 - 3.25
	High	0	2	0	-	1	3	1.24	0.11 - 14.2
Indian Head	None/Low	2	7	1.0	-	7	26	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	1	0	-	0	0	-	-
Parkway	None/Low	0	2	0	-	4	8	1.0	-
	Medium	0	1	-	-	0	14	0	-
	High	2	5	-	-	3	5	0.88	0.15 - 5.00
Route 70	None/Low	2	4	1.0	-	6	22	1.0	-
	Medium	0	2	0	-	1	4	1.00	0.10 - 10.1
	High	0	2	0	-	0	1	0	-

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Table 12c. Interview Study Analysis of Public Water Source/Consumption by Sex: Nervous System Cancers

Source Well Field	Water Source/Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	None/Low	10	38	1.0	-	6	27	1.0	-
	Medium	0	1	0	-	0	1	0	-
	High	1	3	1.00	0.04 - 24.5	1	0	-	-
Holly Street	None/Low	8	31	1.0	-	5	18	1.0	-
	Medium	1	4	1.01	0.11 - 9.22	1	5	1.00	0.04 - 24.5
	High	2	7	1.09	0.18 - 6.40	0	5	0	-
Indian Head	None/Low	11	42	1.0	-	5	27	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	1	1	-	-
Parkway	None/Low	8	31	1.0	-	2	17	1.0	-
	Medium	0	3	0	-	1	7	1.92	0.07 - 49.7
	High	3	8	1.90	0.18 - 20.0	3	4	11.3	0.99 - 129
Route 70	None/Low	11	42	1.0	-	5	27	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	1	1	-	-

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	None/Low	11	35	1.0	-	6	28	1.0	-
	Medium	0	5	0	-	0	0	-	-
	High	0	3	0	-	1	0	-	-
Holly Street	None/Low	6	27	1.0	-	4	11	1.0	-
	Medium	2	8	1.09	0.21 - 5.79	2	11	0.34	0.03 - 4.15
	High	3	8	1.61	0.33 - 7.84	0	6	0	-
Indian Head	None/Low	10	40	1.0	-	6	26	1.0	-
	Medium	1	3	1.33	0.14 - 12.8	0	2	0	-
	High	0	0	-	-	0	0	-	-
Parkway	None/Low	4	18	1.0	-	1	9	1.0	-
	Medium	3	12	1.13	0.22 - 5.86	3	11	2.73	0.26 - 28.5
	High	4	13	1.38	0.28 - 6.81	2	8	2.72	0.23 - 32.3
Route 70	None/Low	11	41	1.0	-	6	26	1.0	-
	Medium	0	1	0	-	0	2	0	-
	High	0	1	0	-	0	0	-	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	None/Low	3	13	1.0	-	5	19	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	1	2	-	-	0	0	-	-
Holly Street	None/Low	2	9	1.0	-	3	12	1.0	-
	Medium	0	3	0	-	1	5	1.00	0.04 - 24.5
	High	2	3	3.00	0.25 - 35.8	0	3	0	-
Indian Head	None/Low	4	15	1.0	-	3	19	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	1	1	-	-
Parkway	None/Low	1	7	-	-	1	11	1.0	-
	Medium	0	3	0	-	1	6	-	-
	High	3	5	-	-	2	3	-	-
Route 70	None/Low	4	15	1.0	-	3	19	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	1	1	-	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	None/Low	4	13	1.0	-	5	20	1.0	-
	Medium	0	1	0	-	0	0	-	-
	High	0	1	0	-	0	0	-	-
Holly Street	None/Low	1	10	1.0	-	2	8	1.0	-
	Medium	0	3	0	-	2	9	0.61	0.03 - 13.0
	High	3	2	-	-	0	3	0	-
Indian Head	None/Low	4	15	1.0	-	4	18	1.0	-
	Medium	0	0	-	-	0	2	0	-
	High	0	0	-	-	0	0	-	-
Parkway	None/Low	1	6	1.0	-	1	7	1.0	-
	Medium	0	4	0	-	2	8	2.14	0.17 - 26.3
	High	3	5	3.79	0.30 - 48.0	1	5	2.07	0.13 - 33.8
Route 70	None/Low	4	14	1.0	-	4	19	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	1	0	-	0	0	-	-

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Table 12d. Interview Study Analysis of Public Water Source/Consumption by Sex: Brain and Central Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	None/Low	8	29	1.0	-	4	20	1.0	-
	Medium	0	1	0	-	0	0	-	-
	High	0	1	0	-	1	0	-	-
Holly Street	None/Low	6	24	1.0	-	4	15	1.0	-
	Medium	1	2	1.94	0.17 - 22.0	0	2	0	-
	High	1	5	0.83	0.08 - 8.57	0	3	0	-
Indian Head	None/Low	8	31	1.0	-	4	19	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	1	0	-
Parkway	None/Low	7	27	1.0	-	2	14	1.0	-
	Medium	0	0	-	-	0	3	0	-
	High	1	4	1.00	0.06 - 16.9	2	3	7.29	0.66 - 80.8
Route 70	None/Low	8	31	1.0	-	4	19	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	1	0	-

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	None/Low	8	26	1.0	-	4	20	1.0	-
	Medium	0	4	0	-	0	0	-	-
	High	0	2	0	-	1	0	-	-
Holly Street	None/Low	5	20	1.0	-	3	11	1.0	-
	Medium	2	6	1.33	0.23 - 7.71	1	4	1.03	0.09 - 11.6
	High	1	6	0.66	0.07 - 6.36	0	5	0	-
Indian Head	None/Low	7	29	1.0	-	4	18	1.0	-
	Medium	1	3	1.33	0.14 - 12.8	0	2	0	-
	High	0	0	-	-	0	0	-	-
Parkway	None/Low	3	15	1.0	-	0	7	0	-
	Medium	3	9	1.66	0.28 - 9.88	3	6	-	-
	High	2	8	1.25	0.18 - 8.81	1	7	-	-
Route 70	None/Low	8	31	1.0	-	4	18	1.0	-
	Medium	0	1	0	-	0	2	0	-
	High	0	0	-	-	0	0	-	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	None/Low	1	4	1.0	-	3	12	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Holly Street	None/Low	0	2	0	-	2	9	1.0	-
	Medium	0	1	-	-	0	2	0	-
	High	1	1	-	-	0	1	0	-
Indian Head	None/Low	1	4	1.0	-	2	11	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	1	0	-
Parkway	None/Low	0	3	0	-	1	8	1.0	-
	Medium	0	0	-	-	0	2	0	-
	High	1	1	-	-	1	2	-	-
Route 70	None/Low	1	4	1.0	-	2	11	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	1	0	-

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Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	None/Low	1	4	1.0	-	3	12	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Holly Street	None/Low	0	3	0	-	1	8	1.0	-
	Medium	0	1	-	-	1	2	-	-
	High	1	0	-	-	0	2	0	-
Indian Head	None/Low	1	4	1.0	-	2	10	1.0	-
	Medium	0	0	-	-	0	2	0	-
	High	0	0	-	-	0	0	-	-
Parkway	None/Low	0	3	0	-	0	5	0	-
	Medium	0	1	-	-	2	3	-	-
	High	1	0	-	-	0	4	-	-
Route 70	None/Low	1	4	1.0	-	2	11	1.0	-
	Medium	0	0	-	-	0	1	0	-
	High	0	0	-	-	0	0	-	-

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Table 13a. Interview Study Analysis of Time-specific Public Water Source/Consumption: Leukemia and Nervous System Cancer

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	38	148	1.0	-
	Medium	2	4	4.45	0.32 - 62.7
	High	0	6	0	-
Parkway (1982 and later)	None/Low	30	124	1.0	-
	Medium	1	21	0.22	0.03 - 1.91
	High	8	13	3.02	0.99 - 9.24
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	37	144	1.0	-
	Medium	2	8	0.94	0.17 - 5.10
	High	1	7	0.53	0.06 - 4.77
Parkway (1982 and later)	None/Low	21	71	1.0	-
	Medium	5	51	0.33	0.11 - 0.99
	High	13	36	1.18	0.48 - 2.91

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	18	71	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	10	42	1.0	-
	Medium	1	17	0.27	0.03 - 2.46
	High	6	11	3.01	0.78 - 11.6
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	18	71	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	8	25	1.0	-
	Medium	1	26	0.14	0.02 - 1.20
	High	8	19	1.39	0.43 - 4.46

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Table 13b. Interview Study Analysis of Time-specific Public Water Source/Consumption: Leukemia

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	21	80	1.0	-
	Medium	1	3	-	-
	High	0	5	0	-
Parkway (1982 and later)	None/Low	17	70	1.0	-
	Medium	0	11	0	-
	High	5	6	2.57	0.72 - 9.10
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	21	79	1.0	-
	Medium	0	5	0	-
	High	1	4	0.79	0.08 - 7.80
Parkway (1982 and later)	None/Low	11	34	1.0	-
	Medium	2	31	0.17	0.03 - 0.91
	High	9	22	1.12	0.36 - 3.56

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	9	36	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	6	22	1.0	-
	Medium	0	8	0	-
	High	3	5	1.80	0.39 - 8.37
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	9	36	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	4	10	1.0	-
	Medium	0	15	0	-
	High	5	10	1.16	0.25 - 5.47

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Table 13c. Interview Study Analysis of Time-specific Public Water Source/Consumption: Nervous System Cancer

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	17	68	1.0	-
	Medium	1	1	4.00	0.25 - 64.0
	High	0	1	0	-
Parkway (1982 and later)	None/Low	13	54	1.0	-
	Medium	1	10	0.62	0.05 - 7.41
	High	3	7	4.51	0.39 - 51.6
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	16	65	1.0	-
	Medium	2	3	2.93	0.40 - 21.6
	High	0	3	0	-
Parkway (1982 and later)	None/Low	10	37	1.0	-
	Medium	3	20	0.63	0.14 - 2.87
	High	4	14	1.19	0.27 - 5.23

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	9	35	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	4	20	1.0	-
	Medium	1	9	1.00	0.06 - 16.9
	High	3	6	-	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	9	35	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	4	15	1.0	-
	Medium	1	11	0.47	0.04 - 5.21
	High	3	9	1.65	0.27 - 9.93

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Table 13d. Interview Study Analysis of Time-specific Public Water Source/Consumption: Brain and Central Nervous System Cancer

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	12	49	1.0	-
	Medium	1	1	4.00	0.25 - 64.0
	High	0	1	0	-
Parkway (1982 and later)	None/Low	11	45	1.0	-
	Medium	0	3	0	-
	High	1	4	2.12	0.13 - 35.4
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Holly Street (prior to 1976)	None/Low	11	46	1.0	-
	Medium	2	3	2.93	0.40 - 21.6
	High	0	3	0	-
Parkway (1982 and later)	None/Low	7	30	1.0	-
	Medium	3	13	1.26	0.22 - 7.14
	High	2	9	1.30	0.20 - 8.58

Source Well Field	Water Source/ Consumption Rating	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	4	16	1.0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	2	11	1.0	-
	Medium	0	2	0	-
	High	1	3	-	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Holly Street (prior to 1976)	None/Low	4	16	0	-
	Medium	0	0	-	-
	High	0	0	-	-
Parkway (1982 and later)	None/Low	1	8	1.0	-
	Medium	1	4	4.02	0.16 - 103
	High	1	4	3.20	0.20 - 52.3

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Table 14a. Interview Study Analysis of Time-specific Public Water Source/Consumption by Sex: Leukemia and Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	18	72	1.0	-	20	76	1.0	-
	Medium	2	4	4.45	0.32 - 62.7	0	0	-	-
	High	0	2	0	-	0	4	0	-
Parkway (1982 and later)	None/Low	18	68	1.0	-	12	56	1.0	-
	Medium	0	5	0	-	1	16	0.37	0.04 - 3.64
	High	2	6	1.17	0.16 - 8.30	6	7	5.16	1.20 - 22.1
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	17	68	1.0	-	20	76	1.0	-
	Medium	2	7	1.18	0.20 - 6.84	0	1	0	-
	High	1	4	1.03	0.10 - 10.6	0	3	0	-
Parkway (1982 and later)	None/Low	12	44	1.0	-	9	27	1.0	-
	Medium	2	19	0.40	0.07 - 2.26	3	32	0.28	0.07 - 1.19
	High	6	16	1.43	0.32 - 6.45	7	20	1.06	0.34 - 3.26

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	6	23	1.0	-	12	48	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	4	14	1.0	-	6	28	1.0	-
	Medium	0	4	0	-	1	13	0.44	0.04 - 4.61
	High	2	5	1.64	0.19 - 14.2	4	6	4.60	0.76 - 27.7
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	6	23	1.0	-	12	48	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	2	10	1.0	-	6	15	1.0	-
	Medium	0	4	0	-	1	22	0.13	0.01 - 1.19
	High	4	9	4.00	0.33 - 49.0	4	10	0.99	0.25 - 3.95

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Table 14b. Interview Study Analysis of Time-specific Public Water Source/Consumption by Sex: Leukemia

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	8	32	1.0	-	13	48	1.0	-
	Medium	1	3	-	-	0	0	-	-
	High	0	1	0	-	0	4	0	-
Parkway (1982 and later)	None/Low	9	31	1.0	-	8	39	1.0	-
	Medium	0	2	0	-	0	9	0	-
	High	0	3	0	-	5	3	5.96	1.12 - 31.7
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	8	31	1.0	-	13	48	1.0	-
	Medium	0	4	0	-	0	1	0	-
	High	1	1	2.83	0.17 - 47.1	0	3	0	-
Parkway (1982 and later)	None/Low	4	16	1.0	-	7	18	1.0	-
	Medium	1	10	0.46	0.03 - 6.47	1	21	0.10	0.01 - 0.96
	High	4	10	1.83	0.19 - 17.3	5	12	0.96	0.24 - 3.79

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	2	8	1.0	-	7	28	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	2	5	1.0	-	4	17	1.0	-
	Medium	0	1	0	-	0	7	0	-
	High	0	2	0	-	3	3	3.22	0.52 - 20.1
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	2	8	1.0	-	7	28	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	0	2	-	-	4	8	1.0	-
	Medium	0	1	-	-	0	14	0	-
	High	2	5	-	-	3	5	0.88	0.15 - 5.00

Table 14: page 4 of 8

**Table 14c. Interview Study Analysis of Time-specific Public Water Source/Consumption by Sex:
Nervous System Cancers**

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	10	40	1.0	-	7	28	1.0	-
	Medium	1	1	4.00	0.25 - 64.0	0	0	-	-
	High	0	1	0	-	0	0	-	-
Parkway (1982 and later)	None/Low	9	37	1.0	-	4	17	1.0	-
	Medium	0	3	0	-	1	7	0.98	0.05 - 17.6
	High	2	3	-	-	1	4	2.43	0.10 - 56.3
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	9	37	1.0	-	7	28	1.0	-
	Medium	2	3	2.93	0.40 - 21.6	0	0	-	-
	High	0	3	0	-	0	0	-	-
Parkway (1982 and later)	None/Low	8	28	1.0	-	2	9	1.0	-
	Medium	1	9	0.38	0.04 - 3.87	2	11	1.02	0.12 - 8.95
	High	2	6	1.12	0.12 - 10.2	2	8	1.41	0.17 - 11.4

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	4	15	1.0	-	5	20	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	2	9	1.0	-	2	11	1.0	-
	Medium	0	3	0	-	1	6	-	-
	High	2	3	-	-	1	3	-	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	4	15	1.0	-	5	20	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	2	8	1.0	-	2	7	1.0	-
	Medium	0	3	0	-	1	8	0.58	0.04 - 8.09
	High	2	4	3.00	0.19 - 48.0	1	5	1.07	0.09 - 12.5

Table 14: page 6 of 8

Table 14d. Interview Study Analysis of Time-specific Public Water Source/Consumption by Sex: Brain and Central Nervous System Cancers

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	7	29	1.0	-	5	20	1.0	-
	Medium	1	1	4.00	0.25 - 64.0	0	0	-	-
	High	0	1	0	-	0	0	-	-
Parkway (1982 and later)	None/Low	7	31	1.0	-	4	14	1.0	-
	Medium	0	0	-	-	0	3	0	-
	High	1	1	-	-	0	3	0	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	None/Low	6	26	1.0	-	5	20	1.0	-
	Medium	2	3	2.93	0.40 - 21.6	0	0	-	-
	High	0	3	0	-	0	0	-	-
Parkway (1982 and later)	None/Low	6	23	1.0	-	1	7	1.0	-
	Medium	1	7	0.53	0.05 - 6.17	2	6	4.33	0.18 - 103
	High	1	2	1.60	0.13 - 19.5	1	7	1.81	0.09 - 36.9

Source Well Field	Water Source/ Consumption Rating	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	1	4	1.0	-	3	12	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	0	3	0	-	2	8	1.0	-
	Medium	0	0	-	-	0	2	0	-
	High	1	1	-	-	0	2	0	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	None/Low	1	4	1.0	-	3	12	1.0	-
	Medium	0	0	-	-	0	0	-	-
	High	0	0	-	-	0	0	-	-
Parkway (1982 and later)	None/Low	0	3	0	-	1	5	1.0	-
	Medium	0	1	-	-	1	3	-	-
	High	1	0	-	-	0	4	0	-

Table 14: page 8 of 8

Table 15. Interview Study Average Point Source Airborne Gas Emission Exposure over Total Study Time Period

Exposure	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Ciba-Geigy Toms River Chemical Plant Airborne Gas Emissions (relative air impact units)				
<1.00	16	40.0	79	49.7
1.00 - 2.17	12	30.0	40	25.2
> 2.17	12	30.0	40	25.2
Oyster Creek Nuclear Generating Station Airborne Gas Emissions (fCi/m ³)				
<0.080	21	52.5	81	50.9
0.080 - 0.27	11	27.5	38	23.9
>0.27	8	20.0	40	25.2

Note: Cut points are set at the 50th and 75th percentiles among controls.

Table 16a. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units): Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	16	79	1.0	-
	1.00 - 2.17	12	40	1.59	0.63 - 4.00
	>2.17	12	40	1.62	0.65 - 4.03
Oyster Creek Gas	<0.080	21	81	1.0	-
	0.080 - 0.27	11	38	1.02	0.39 - 2.70
	>0.27	8	40	0.48	0.12 - 1.99
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	21	101	1.0	-
	1.00 - 2.17	10	28	1.85	0.72 - 4.71
	>2.17	9	28	1.59	0.64 - 3.98
Oyster Creek Gas	<0.080	26	112	1.0	-
	0.080 - 0.27	7	15	3.57	0.80 - 16.0
	>0.27	7	30	1.07	0.31 - 3.71
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	17	70	1.0	-
	1.00 - 2.17	12	51	0.98	0.41 - 2.36
	>2.17	11	38	1.21	0.47 - 3.04
Oyster Creek Gas	<0.080	20	81	1.0	-
	0.080 - 0.27	12	42	1.21	0.40 - 3.68
	>0.27	8	36	0.67	0.14 - 3.12

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	6	34	1.0	-
	1.00 - 2.17	5	23	1.35	0.29 - 6.42
	>2.17	7	14	3.45	0.80 - 14.9
Oyster Creek Gas	<0.080	11	49	1.0	-
	0.080 - 0.27	6	17	1.79	0.41 - 7.84
	>0.27	1	5	-	-
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	8	39	1.0	-
	1.00 - 2.17	4	20	0.88	0.20 - 3.94
	>2.17	6	11	2.99	0.78 - 11.5
Oyster Creek Gas	<0.080	11	52	1.0	-
	0.080 - 0.27	5	10	6.37	0.62 - 65.3
	>0.27	2	8	1.55	0.02 - 99.9
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	7	31	1.0	-
	1.00 - 2.17	5	27	0.89	0.22 - 3.53
	>2.17	6	13	2.21	0.52 - 9.27
Oyster Creek Gas	<0.080	10	46	1.0	-
	0.080 - 0.27	7	22	2.53	0.40 - 16.0
	>0.27	1	3	-	-

Table 16: page 2 of 8

Table 16b. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units): Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	10	42	1.0	-
	1.00 - 2.17	6	19	1.36	0.38 - 4.86
	>2.17	6	27	0.97	0.28 - 3.33
Oyster Creek Gas	<0.080	11	46	1.0	-
	0.080 - 0.27	7	25	1.18	0.36 - 3.83
	>0.27	4	17	0.93	0.11 - 7.59
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	11	56	1.0	-
	1.00 - 2.17	7	15	2.69	0.81 - 8.92
	>2.17	4	16	1.34	0.36 - 4.95
Oyster Creek Gas	<0.080	15	65	1.0	-
	0.080 - 0.27	2	4	2.62	0.33 - 20.6
	>0.27	5	18	1.41	0.29 - 6.98
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	11	38	1.0	-
	1.00 - 2.17	5	26	0.60	0.17 - 2.19
	>2.17	6	24	0.78	0.23 - 2.65
Oyster Creek Gas	<0.080	10	44	1.0	-
	0.080 - 0.27	8	28	1.52	0.36 - 6.38
	>0.27	4	16	1.36	0.14 - 13.6

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Leukemia Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	3	16	1.0	-
	1.00 - 2.17	3	10	1.78	0.25 - 12.6
	>2.17	3	10	1.79	0.24 - 13.3
Oyster Creek Gas	<0.080	4	23	1.0	-
	0.080 - 0.27	5	12	2.73	0.48 - 15.6
	>0.27	0	1	0	-
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	4	20	1.0	-
	1.00 - 2.17	3	10	1.60	0.27 - 9.41
	>2.17	2	5	2.08	0.26 - 16.3
Oyster Creek Gas	<0.080	7	30	1.0	-
	0.080 - 0.27	1	2	2.45	0.14 - 42.6
	>0.27	1	3	-	-
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	4	13	1.0	-
	1.00 - 2.17	2	15	0.39	0.05 - 2.98
	>2.17	3	8	1.03	0.17 - 6.36
Oyster Creek Gas	<0.080	3	18	1.0	-
	0.080 - 0.27	6	18	3.78	0.35 - 40.8
	>0.27	0	0	-	-

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Table 16c. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units): Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	6	37	1.0	-
	1.00 - 2.17	6	21	1.86	0.49 - 7.15
	>2.17	6	13	3.05	0.79 - 11.8
Oyster Creek Gas	<0.080	10	35	1.0	-
	0.080 - 0.27	4	13	0.86	0.16 - 4.65
	>0.27	4	23	0.28	0.04 - 2.05
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	10	45	1.0	-
	1.00 - 2.17	3	13	0.89	0.16 - 4.81
	>2.17	5	12	1.96	0.54 - 7.10
Oyster Creek Gas	<0.080	11	47	1.0	-
	0.080 - 0.27	5	11	4.49	0.40 - 50.0
	>0.27	2	12	0.68	0.07 - 7.02
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	6	32	1.0	-
	1.00 - 2.17	7	25	1.54	0.44 - 5.37
	>2.17	5	14	2.05	0.49 - 8.51
Oyster Creek Gas	<0.080	10	37	1.0	-
	0.080 - 0.27	4	14	0.97	0.16 - 5.70
	>0.27	4	20	0.37	0.04 - 3.02

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	3	18	1.0	-
	1.00 - 2.17	2	13	0.53	0.03 - 9.12
	>2.17	4	4	9.00	0.86 - 94.2
Oyster Creek Gas	<0.080	7	26	1.0	-
	0.080 - 0.27	1	5	0.47	0.03 - 7.86
	>0.27	1	4	-	-
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	4	19	1.0	-
	1.00 - 2.17	1	10	-	-
	>2.17	4	6	3.35	0.55 - 20.2
Oyster Creek Gas	<0.080	4	22	1.0	-
	0.080 - 0.27	4	8	-	-
	>0.27	1	5	-	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	3	18	1.0	-
	1.00 - 2.17	3	12	1.78	0.26 - 12.4
	>2.17	3	5	5.21	0.54 - 50.3
Oyster Creek Gas	<0.080	7	28	1.0	-
	0.080 - 0.27	1	4	1.00	0.03 - 32.0
	>0.27	1	3	-	-

Table 16: page 6 of 8

Table 16d. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units): Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	4	24	1.0	-
	1.00 - 2.17	5	15	1.92	0.47 - 7.85
	>2.17	4	13	1.84	0.40 - 8.51
Oyster Creek Gas	<0.080	7	21	1.0	-
	0.080 - 0.27	3	11	0.58	0.09 - 3.67
	>0.27	3	20	0.23	0.03 - 1.76
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	8	34	1.0	-
	1.00 - 2.17	2	6	1.42	0.25 - 8.14
	>2.17	3	11	1.13	0.24 - 5.46
Oyster Creek Gas	<0.080	8	33	1.0	-
	0.080 - 0.27	4	9	3.58	0.29 - 44.8
	>0.27	1	9	0.63	0.06 - 6.65
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.00	4	19	1.0	-
	1.00 - 2.17	5	19	1.24	0.30 - 5.17
	>2.17	4	14	1.34	0.29 - 6.15
Oyster Creek Gas	<0.080	7	24	1.0	-
	0.080 - 0.27	3	11	0.80	0.12 - 5.30
	>0.27	3	17	0.34	0.04 - 2.86

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Period Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	1	5	1.0	-
	1.00 - 2.17	1	7	0.58	0.03 - 12.5
	>2.17	2	4	2.79	0.17 - 44.8
Oyster Creek Gas	<0.080	4	12	1.0	-
	0.080 - 0.27	0	3	0	-
	>0.27	0	1	0	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	2	8	1.0	-
	1.00 - 2.17	0	3	0	-
	>2.17	2	5	2.14	0.17 - 27.7
Oyster Creek Gas	<0.080	1	8	1.0	-
	0.080 - 0.27	3	6	-	-
	>0.27	0	2	0	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.00	1	5	1.0	-
	1.00 - 2.17	1	6	0.85	0.04 - 16.3
	>2.17	2	5	1.86	0.14 - 24.7
Oyster Creek Gas	<0.080	4	15	1.0	-
	0.080 - 0.27	0	1	0	-
	>0.27	0	0	0	-

Table 16: page 8 of 8

Table 17a. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units) by Sex: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	8	36	1.0	-	8	43	1.0	-
	1.00 - 2.17	6	20	1.31	0.38 - 4.50	6	20	2.16	0.52 - 9.01
	>2.17	6	23	1.18	0.37 - 3.82	6	17	2.62	0.60 - 11.4
Oyster Creek Gas	<0.080	7	29	1.0	-	14	52	1.0	-
	0.080 - 0.27	6	21	1.16	0.31 - 4.32	5	17	1.00	0.23 - 4.41
	>0.27	7	29	0.85	0.14 - 5.27	1	11	-	-
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	12	51	1.0	-	9	50	1.0	-
	1.00 - 2.17	3	11	1.05	0.21 - 5.25	7	17	2.92	0.79 - 10.8
	>2.17	5	16	1.32	0.41 - 4.22	4	12	2.36	0.51 - 11.0
Oyster Creek Gas	<0.080	14	55	1.0	-	12	57	1.0	-
	0.080 - 0.27	3	6	3.58	0.31 - 41.0	4	9	4.20	0.57 - 31.2
	>0.27	3	17	0.52	0.08 - 3.22	4	13	2.64	0.34 - 20.3
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	9	32	1.0	-	8	38	1.0	-
	1.00 - 2.17	5	27	0.65	0.19 - 2.16	7	24	1.65	0.42 - 6.53
	>2.17	6	20	1.02	0.34 - 3.33	5	18	1.64	0.34 - 7.89
Oyster Creek Gas	<0.080	7	29	1.0	-	13	52	1.0	-
	0.080 - 0.27	6	22	1.06	0.24 - 5.83	6	20	1.52	0.29 - 7.95
	>0.27	7	28	0.97	0.13 - 7.27	1	8	-	-

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	10	2	1.0	-	4	24	1.0	-
	1.00 - 2.17	8	2	1.03	0.08 - 12.8	3	15	1.70	0.22 - 13.1
	>2.17	5	2	2.05	0.20 - 20.6	5	9	4.83	0.69 - 33.7
Oyster Creek Gas	<0.080	2	14	1.0	-	9	35	1.0	-
	0.080 - 0.27	3	6	-	-	3	11	0.92	0.16 - 5.30
	>0.27	1	3	-	-	0	2	0	-
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	3	11	1.0	-	5	28	1.0	-
	1.00 - 2.17	1	6	-	-	3	14	1.58	0.28 - 8.88
	>2.17	2	6	1.22	0.19 - 7.95	4	5	7.51	0.97 - 58.0
Oyster Creek Gas	<0.080	3	17	1.0	-	8	35	1.0	-
	0.080 - 0.27	2	3	-	-	3	7	3.70	0.28 - 48.4
	>0.27	1	3	-	-	1	5	1.18	0.02 - 56.3
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	3	11	1.0	-	4	20	1.0	-
	1.00 - 2.17	1	9	0.36	0.03 - 4.18	4	18	1.48	0.22 - 10.1
	>2.17	2	3	2.34	0.30 - 18.3	4	10	2.72	0.33 - 22.3
Oyster Creek Gas	<0.080	2	11	1.0	-	8	35	1.0	-
	0.080 - 0.27	3	9	-	-	4	13	1.88	0.25 - 14.5
	>0.27	1	3	-	-	0	0	-	-

Table 17: page 2 of 8

Table 17b. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units) by Sex: Leukemia

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	4	16	1.0	-	6	26	1.0	-
	1.00 - 2.17	3	5	2.63	0.33 - 20.7	3	14	1.03	0.18 - 5.90
	>2.17	2	15	0.62	0.10 - 3.93	4	12	1.60	0.28 - 9.03
Oyster Creek Gas	<0.080	3	15	1.0	-	8	31	1.0	-
	0.080 - 0.27	3	12	1.58	0.29 - 8.69	4	13	1.21	0.22 - 6.67
	>0.27	3	9	-	-	1	8	-	-
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	6	23	1.0	-	5	33	1.0	-
	1.00 - 2.17	1	5	0.78	0.08 - 7.52	6	10	6.42	1.09 - 37.8
	>2.17	2	8	0.96	0.14 - 6.36	2	8	2.06	0.31 - 13.6
Oyster Creek Gas	<0.080	6	27	1.0	-	9	38	1.0	-
	0.080 - 0.27	1	1	-	-	1	3	1.61	0.12 - 20.8
	>0.27	2	8	1.00	0.11 - 8.95	3	10	1.87	0.16 - 21.5
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	5	15	1.0	-	6	23	1.0	-
	1.00 - 2.17	2	9	0.64	0.10 - 3.95	3	17	0.65	0.10 - 4.11
	>2.17	2	12	0.49	0.08 - 3.03	4	12	1.21	0.20 - 7.21
Oyster Creek Gas	<0.080	3	16	1.0	-	7	28	1.0	-
	0.080 - 0.27	3	11	3.31	0.26 - 42.1	5	17	1.48	0.21 - 10.5
	>0.27	3	9	-	-	1	7	-	-

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	1	2	1.0	-	2	14	1.0	-
	1.00 - 2.17	1	1	-	-	2	9	2.69	0.19 - 37.6
	>2.17	0	5	0	-	3	5	7.28	0.44 - 120
Oyster Creek Gas	<0.080	0	4	-	-	4	19	1.0	-
	0.080 - 0.27	2	4	-	-	3	8	1.84	0.27 - 12.7
	>0.27	0	0	-	-	0	1	0	-
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	2	2	1.0	-	2	18	1.0	-
	1.00 - 2.17	0	2	0	-	3	8	5.21	0.48 - 56.5
	>2.17	0	4	0	-	2	1	18.9	0.90 - 397
Oyster Creek Gas	<0.080	1	7	1.0	-	6	23	1.0	-
	0.080 - 0.27	1	1	-	-	0	1	0	-
	>0.27	0	0	-	-	1	3	-	-
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	2	2	1.0	-	2	11	1.0	-
	1.00 - 2.17	0	3	0	-	2	12	1.65	0.09 - 30.9
	>2.17	0	3	0	-	3	5	5.52	0.25 - 122
Oyster Creek Gas	<0.080	0	2	-	-	3	16	1.0	-
	0.080 - 0.27	2	6	-	-	4	12	3.06	0.25 - 37.7
	>0.27	0	0	-	-	0	0	-	-

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Table 17c. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units) by Sex: Nervous System Cancers

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	4	20	1.0	-	2	17	1.0	-
	1.00 - 2.17	3	15	0.90	0.16 - 5.17	3	6	8.34	0.63 - 110
	>2.17	4	8	2.35	0.48 - 11.4	2	5	5.94	0.44 - 81.0
Oyster Creek Gas	<0.080	4	14	1.0	-	6	21	1.0	-
	0.080 - 0.27	3	9	1.08	0.13 - 8.80	1	4	0.58	0.03 - 10.3
	>0.27	4	20	0.39	0.04 - 3.60	0	3	0	-
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	6	28	1.0	-	4	17	1.0	-
	1.00 - 2.17	2	6	1.43	0.15 - 13.9	1	7	0.73	0.06 - 9.36
	>2.17	3	8	1.60	0.36 - 7.04	2	4	3.77	0.20 - 69.6
Oyster Creek Gas	<0.080	8	28	1.0	-	3	19	1.0	-
	0.080 - 0.27	2	5	1.15	0.07 - 20.5	3	6	-	-
	>0.27	1	9	-	-	1	3	-	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	4	17	1.0	-	2	15	1.0	-
	1.00 - 2.17	3	18	0.67	0.13 - 3.49	4	7	5.19	0.51 - 52.5
	>2.17	4	8	2.06	0.43 - 9.96	1	6	2.00	0.09 - 46.8
Oyster Creek Gas	<0.080	4	13	1.0	-	6	24	1.0	-
	0.080 - 0.27	3	11	0.78	0.09 - 6.58	1	3	1.63	0.08 - 34.6
	>0.27	4	19	0.36	0.04 - 3.55	0	1	0	-

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	1	8	1.0	-	2	10	1.0	-
	1.00 - 2.17	1	7	-	-	1	6	0.78	0.03 - 23.0
	>2.17	2	0	0	-	2	4	3.19	0.20 - 51.1
Oyster Creek Gas	<0.080	2	10	1.0	-	5	16	1.0	-
	0.080 - 0.27	1	2	-	-	0	3	0	-
	>0.27	1	3	-	-	0	1	0	-
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	1	9	1.0	-	3	10	1.0	-
	1.00 - 2.17	1	4	-	-	0	6	0	-
	>2.17	2	2	5.40	0.47 - 62.1	2	4	1.82	0.14 - 23.6
Oyster Creek Gas	<0.080	2	10	1.0	-	2	12	1.0	-
	0.080 - 0.27	1	2	-	-	3	6	-	-
	>0.27	1	3	-	-	0	2	0	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	1	9	1.0	-	2	9	1.0	-
	1.00 - 2.17	1	6	1.15	0.04 - 32.1	2	6	1.53	0.13 - 18.5
	>2.17	2	0	-	-	1	5	0.96	0.04 - 21.2
Oyster Creek Gas	<0.080	2	9	1.0	-	5	19	1.0	-
	0.080 - 0.27	1	3	-	-	0	1	0	-
	>0.27	1	3	-	-	0	0	-	-

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Table 17d. Interview Study Analysis of Point Source Air Emission Estimates (See Table 15 for exposure level units) by Sex: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	3	15	1.0	-	1	9	1.0	-
	1.00 - 2.17	2	9	1.12	0.18 - 7.06	3	6	4.51	0.39 - 52.8
	>2.17	3	8	1.76	0.31 - 9.90	1	5	1.95	0.08 - 46.0
Oyster Creek Gas	<0.080	3	8	1.0	-	4	13	1.0	-
	0.080 - 0.27	2	7	0.61	0.06 - 6.50	1	4	0.58	0.03 - 10.3
	>0.27	3	17	0.29	0.03 - 2.88	0	3	0	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	5	22	1.0	-	3	12	1.0	-
	1.00 - 2.17	1	2	2.03	0.18 - 22.5	1	4	1.00	0.08 - 12.1
	>2.17	2	7	1.16	0.20 - 6.65	1	4	1.00	0.03 - 33.8
Oyster Creek Gas	<0.080	7	22	1.0	-	1	11	1.0	-
	0.080 - 0.27	1	3	-	-	3	6	-	-
	>0.27	0	6	0	-	1	3	-	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.00	3	11	1.0	-	1	8	1.0	-
	1.00 - 2.17	2	13	0.57	0.08 - 3.89	3	6	3.54	0.30 - 41.3
	>2.17	3	8	1.32	0.24 - 7.26	1	6	1.45	0.06 - 33.9
Oyster Creek Gas	<0.080	3	8	1.0	-	4	16	1.0	-
	0.080 - 0.27	2	8	0.55	0.05 - 5.79	1	3	1.63	0.08 - 34.6
	>0.27	3	16	0.30	0.03 - 3.19	0	1	0	-

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	0	3	-	-	1	2	1.0	-
	1.00 - 2.17	0	1	-	-	1	6	0.41	0.02 - 7.10
	>2.17	1	0	-	-	1	4	0.65	0.03 - 13.1
Oyster Creek Gas	<0.080	1	4	-	-	3	8	1.0	-
	0.080 - 0.27	0	0	-	-	0	3	0	-
	>0.27	0	0	-	-	0	1	0	-
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	0	3	-	-	2	5	1.0	-
	1.00 - 2.17	0	0	-	-	0	3	0	-
	>2.17	1	1	-	-	1	4	0.71	0.03 - 16.6
Oyster Creek Gas	<0.080	1	4	1.0	-	0	4	-	-
	0.080 - 0.27	0	0	-	-	3	6	-	-
	>0.27	0	0	-	-	0	2	-	-
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.00	0	3	-	-	1	2	1.0	-
	1.00 - 2.17	0	1	-	-	1	5	0.50	0.03 - 8.34
	>2.17	1	0	-	-	1	5	0.50	0.03 - 8.34
Oyster Creek Gas	<0.080	1	4	1.0	-	3	11	1.0	-
	0.080 - 0.27	0	0	-	-	0	1	0	-
	>0.27	0	0	-	-	0	0	-	-

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Table 18. Interview Study Proximity to Sites of Concern

Sites of Concern	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Percentage of Total Time Period Lived Within ½ mile of Ciba-Geigy				
0	35	87.5	147	92.5
>0 - 50	3	7.5	3	1.9
>50	2	5.0	9	5.7
Percentage of Total Time Period Lived Within ½ mile of Ciba-Geigy Pipeline				
0	26	65.0	121	76.1
>0 - 50	8	20.0	15	9.4
>50	6	15.0	23	14.5
Percentage of Total Time Period Lived Within ½ mile of a Break in Ciba-Geigy Pipeline*				
0	35	87.5	144	91.1
>0 - 50	3	7.5	10	6.3
>50	2	5.0	4	2.5
Percentage of Total Time Period Lived Within ½ mile of Toms River Section				
0	35	87.5	141	88.7
>0 - 50	2	5.0	10	6.3
>50	3	7.5	8	5.0
Percentage of Total Time Period Lived Within ½ mile of Reich Farm				
0	40	100.0	155	97.5
>0 - 50	0	0.0	3	1.9
>50	0	0.0	1	0.6
Percentage of Total Time Period Lived Within ½ mile of Dover Township Municipal Landfill				
0	40	100.0	158	99.4
>0 - 50	0	0.0	0	0.0
>50	0	0.0	1	0.6

Sites of Concern	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Percentage of Total Time Period Lived Within ½ mile of Ocean County Landfill				
0	40	100.0	158	99.4
>0 - 50	0	0.0	1	0.6
>50	0	0.0	0	0.0
Percentage of Total Time Period Lived Within ½ mile of Toms River Coal Gas Site				
0	38	95.0	157	98.7
>0 - 50	1	2.5	2	1.3
>50	1	2.5	0	0.0

* This index only includes residences within ½ mile of a pipeline break during or after the year a break occurred.

Table 19a. Interview Study Analysis of Proximity to Sites of Concern: Leukemia and Nervous System Cancers

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never	35	147	1.0	-
	Ever	5	12	1.82	0.58 - 5.71
Lived within ½ mile of Ciba-Geigy Pipeline	Never	26	120	1.0	-
	Ever	14	38	1.66	0.80 - 3.43
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	35	144	1.0	-
	Ever	5	14	1.48	0.51 - 4.30
Lived within ½ mile of Toms River Section	Never	35	141	1.0	-
	Ever	5	18	1.14	0.38 - 3.40
Lived within ½ mile of Reich Farm	Never	40	155	1.0	-
	Ever	0	4	0	-
Lived within ½ mile of Dover Township Municipal Landfill	Never	40	158	1.0	-
	Ever	0	1	0	-
Lived within ½ mile of Ocean County Landfill	Never	40	158	1.0	-
	Ever	0	1	0	-
Lived within ½ mile of Toms River Coal Gas Site	Never	38	157	1.0	-
	Ever	2	2	4.00	0.56 - 28.4

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	37 3	151 6	1.0 2.25	- 0.49 - 10.4
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	34 6	144 13	1.0 1.82	- 0.68 - 4.89
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	39 1	156 1	1.0 4.00	- 0.25 - 64.0
Lived within ½ mile of Toms River Section	Never Ever	36 4	150 7	1.0 2.34	- 0.65 - 8.41
Lived within ½ mile of Reich Farm	Never Ever	40 0	156 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	40 0	157 0	1.0 0	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	40 0	156 1	1.0 0	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	38 2	156 1	1.0 8.00	- 0.73 - 88.2

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never	36	147	1.0	-
	Ever	4	12	1.38	0.41 - 4.59
Lived within ½ mile of Ciba-Geigy Pipeline	Never	27	120	1.0	-
	Ever	13	38	1.51	0.72 - 3.18
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	35	144	1.0	-
	Ever	5	14	1.48	0.51 - 4.30
Lived within ½ mile of Toms River Section	Never	35	141	1.0	-
	Ever	5	18	1.14	0.38 - 3.40
Lived within ½ mile of Reich Farm	Never	40	155	1.0	-
	Ever	0	4	0	-
Lived within ½ mile of Dover Township Municipal Landfill	Never	40	158	1.0	-
	Ever	0	1	0	-
Lived within ½ mile of Ocean County Landfill	Never	40	158	1.0	-
	Ever	0	1	0	-
Lived within ½ mile of Toms River Coal Gas Site	Never	38	157	1.0	-
	Ever	2	2	4.00	0.56 - 28.4

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	16 2	67 4	1.0 3.00	- 0.27 - 33.1
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	12 6	58 12	1.0 2.29	- 0.74 - 7.09
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	16 2	68 2	1.0 4.00	- 0.56 - 28.4
Lived within ½ mile of Toms River Section	Never Ever	16 2	65 6	1.0 1.43	- 0.24 - 8.65
Lived within ½ mile of Reich Farm	Never Ever	18 0	69 2	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	18 0	71 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	18 0	71 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	17 1	70 1	1.0 4.00	- 0.25 - 64.0

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	16 2	67 3	1.0 4.29	- 0.37 - 50.4
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	14 4	63 7	1.0 2.27	- 0.63 - 8.17
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	18 0	69 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	16 2	67 3	1.0 2.67	- 0.45 - 16.0
Lived within ½ mile of Reich Farm	Never Ever	18 0	69 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	18 0	70 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	18 0	70 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	17 1	70 0	1.0 -	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	17 1	67 4	1.0 1.00	- 0.09 - 11.6
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	13 5	58 12	1.0 1.86	- 0.56 - 6.14
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	16 2	68 2	1.0 4.00	- 0.56 - 28.4
Lived within ½ mile of Toms River Section	Never Ever	16 2	65 6	1.0 1.43	- 0.24 - 8.65
Lived within ½ mile of Reich Farm	Never Ever	18 0	69 2	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	18 0	71 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	18 0	71 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	17 1	70 1	1.0 4.00	- 0.25 - 64.0

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Table 19b. Interview Study Analysis of Proximity to Sites of Concern: Leukemia

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	20 2	79 9	1.0 0.87	- 0.17 - 4.49
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	11 11	64 23	1.0 2.63	- 1.03 - 6.67
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	18 4	78 9	1.0 1.93	- 0.54 - 6.87
Lived within ½ mile of Toms River Section	Never Ever	20 2	74 14	1.0 0.49	- 0.10 - 2.51
Lived within ½ mile of Reich Farm	Never Ever	22 0	85 3	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	22 0	88 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	22 0	87 1	1.0 0	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	21 1	87 1	1.0 4.00	- 0.25 - 64.0

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	20 2	82 5	1.0 1.77	- 0.28 - 11.1
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	18 4	81 6	1.0 2.59	- 0.73 - 9.19
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	21 1	87 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	20 2	82 5	1.0 1.67	- 0.30 - 9.39
Lived within ½ mile of Reich Farm	Never Ever	22 0	86 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	22 0	87 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	22 0	86 1	1.0 0	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	21 1	87 0	1.0 -	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	21 1	79 9	1.0 0.42	- 0.05 - 3.48
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	12 10	64 23	1.0 2.31	- 0.89 - 6.02
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	18 4	78 9	1.0 1.93	- 0.54 - 6.87
Lived within ½ mile of Toms River Section	Never Ever	20 2	74 14	1.0 0.49	- 0.10 - 2.51
Lived within ½ mile of Reich Farm	Never Ever	22 0	85 3	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	22 0	88 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	22 0	87 1	1.0 0	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	21 1	87 1	1.0 4.00	- 0.25 - 64.0

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Leukemia Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	7 2	32 4	1.0 3.00	- 0.27 - 33.1
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	4 5	30 5	1.0 7.09	- 1.32 - 38.2
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	7 2	34 1	1.0 8.00	- 0.73 - 88.2
Lived within ½ mile of Toms River Section	Never Ever	8 1	32 4	1.0 1.00	- 0.07 - 13.7
Lived within ½ mile of Reich Farm	Never Ever	9 0	34 2	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	9 0	36 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	9 0	36 0	1.0 0	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	9 0	35 1	1.0 0	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	7 2	32 3	1.0 4.29	- 0.37 - 50.4
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	6 3	33 2	1.0 5.67	- 0.95 - 34.0
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	8 1	33 2	1.0 2.00	- 0.18 - 22.1
Lived within ½ mile of Reich Farm	Never Ever	9 0	34 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	9 0	35 0	1.0 -	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	8 1	32 4	1.0 1.00	- 0.09 - 11.6
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	5 4	30 5	1.0 5.53	- 0.95 - 32.2
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	7 2	34 1	1.0 8.00	- 0.73 - 88.2
Lived within ½ mile of Toms River Section	Never Ever	8 1	32 4	1.0 1.00	- 0.07 - 13.7
Lived within ½ mile of Reich Farm	Never Ever	9 0	34 2	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	9 0	36 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	9 0	36 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	9 0	35 1	1.0 0	- -

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Table 19c. Interview Study Analysis of Proximity to Sites of Concern: Nervous System Cancers

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never	15	68	1.0	-
	Ever	3	3	5.04	0.82 - 31.0
Lived within ½ mile of Ciba-Geigy Pipeline	Never	15	56	1.0	-
	Ever	3	15	0.76	0.20 - 2.83
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	17	66	1.0	-
	Ever	1	5	0.80	0.09 - 6.85
Lived within ½ mile of Toms River Section	Never	15	67	1.0	-
	Ever	3	4	3.00	0.67 - 13.4
Lived within ½ mile of Reich Farm	Never	18	70	1.0	-
	Ever	0	1	0	-
Lived within ½ mile of Dover Township Municipal Landfill	Never	18	70	1.0	-
	Ever	0	1	0	-
Lived within ½ mile of Ocean County Landfill	Never	18	71	1.0	-
	Ever	0	0	-	-
Lived within ½ mile of Toms River Coal Gas Site	Never	17	70	1.0	-
	Ever	1	1	4.00	0.25 - 64.0

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	17 1	69 1	1.0 4.00	- 0.25 - 64.0
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	16 2	63 7	1.0 1.11	- 0.22 - 5.62
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	18 0	69 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	16 2	68 2	1.0 3.72	- 0.52 - 26.5
Lived within ½ mile of Reich Farm	Never Ever	18 0	70 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	18 0	70 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	18 0	70 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	17 1	69 1	1.0 4.00	- 0.25 - 64.0

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	15 3	68 3	1.0 5.04	- 0.82 - 31.0
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	15 3	56 15	1.0 0.76	- 0.20 - 2.83
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	17 1	66 5	1.0 0.80	- 0.09 - 6.85
Lived within ½ mile of Toms River Section	Never Ever	15 3	67 4	1.0 3.00	- 0.67 - 13.4
Lived within ½ mile of Reich Farm	Never Ever	18 0	70 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	18 0	70 1	1.0 0	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	18 0	71 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	17 1	70 1	1.0 4.00	- 0.25 - 64.0

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	8 1	28 7	1.0 0.52	- 0.06 - 4.55
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	34 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	8 1	33 2	1.0 2.00	- 0.18 - 22.1
Lived within ½ mile of Reich Farm	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	8 1	35 0	1.0 -	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	8 1	30 5	1.0 0.74	- 0.08 - 6.87
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	34 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	8 1	34 1	1.0 4.00	- 0.25 - 64.0
Lived within ½ mile of Reich Farm	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	8 1	35 0	1.0 -	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	8 1	28 7	1.0 0.52	- 0.06 - 4.55
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	34 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	8 1	33 2	1.0 2.00	- 0.18 - 22.1
Lived within ½ mile of Reich Farm	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	9 0	35 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	8 1	35 0	1.0 -	- -

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Table 19d. Interview Study Analysis of Proximity to Sites of Concern: Brain and Central Nervous System Cancers

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	10 3	49 3	1.0 5.04	- 0.82 - 31.0
Lied within ½ mile of Ciba-Geigy Pipeline	Never Ever	11 2	42 10	1.0 0.78	- 0.16 - 3.87
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	12 1	48 4	1.0 1.00	- 0.11 - 8.95
Lived within ½ mile of Toms River Section	Never Ever	11 2	48 4	1.0 2.00	- 0.37 - 10.9
Lived within ½ mile of Reich Farm	Never Ever	13 0	51 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	13 0	51 1	1.0 0	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	13 0	52 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	13 0	51 1	1.0 0	- -

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	12 1	50 1	1.0 4.00	- 0.25 - 64.0
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	12 1	48 3	1.0 1.33	- 0.14 - 12.8
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	13 0	51 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	12 1	49 2	1.0 1.81	- 0.16 - 20.1
Lived within ½ mile of Reich Farm	Never Ever	13 0	51 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	13 0	51 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	13 0	51 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	13 0	50 1	1.0 0	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Lived within ½ mile of Ciba-Geigy	Never Ever	10 3	49 3	1.0 5.04	- 0.82 - 31.0
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	11 2	42 10	1.0 0.78	- 0.16 - 3.87
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	12 1	48 4	1.0 1.00	- 0.11 - 8.95
Lived within ½ mile of Toms River Section	Never Ever	11 2	48 4	1.0 2.00	- 0.37 - 10.9
Lived within ½ mile of Reich Farm	Never Ever	13 0	51 1	1.0 0	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	13 0	51 1	1.0 0	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	13 0	52 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	13 0	51 1	1.0 0	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	4 0	14 2	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	4 0	14 2	1.0 0	- -
Lived within ½ mile of Reich Farm	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	4 0	16 0	1.0 -	- -

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Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	4 0	15 1	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	4 0	15 1	1.0 0	- -
Lived within ½ mile of Reich Farm	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	4 0	16 0	1.0 -	- -

Table 19: page 23 of 24

Sites of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Lived within ½ mile of Ciba-Geigy	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	4 0	14 2	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	4 0	14 2	1.0 0	- -
Lived within ½ mile of Reich Farm	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Dover Township Municipal Landfill	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Ocean County Landfill	Never Ever	4 0	16 0	1.0 -	- -
Lived within ½ mile of Toms River Coal Gas Site	Never Ever	4 0	16 0	1.0 -	- -

Table 19: page 24 of 24

Table 20a. Interview Study Analysis of Proximity to Sites of Concern by Sex: Leukemia and Nervous System Cancers

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	18 2	71 8	1.0 1.00	- 0.20 - 5.12	17 3	76 4	1.0 4.16	- 0.66 - 26.1
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	16 4	56 23	1.0 0.60	- 0.18 - 2.03	10 10	64 15	1.0 3.62	- 1.34 - 9.76
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	20 0	71 8	1.0 0	- -	15 5	73 6	1.0 3.33	- 1.02 - 10.9
Lived within ½ mile of Toms River Section	Never Ever	18 2	70 9	1.0 0.87	- 0.16 - 4.66	17 3	71 9	1.0 1.42	- 0.33 - 6.07
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	19 1	74 4	1.0 1.00	- 0.10 - 10.1	18 2	77 2	1.0 6.00	- 0.52 - 69.5
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	19 1	71 7	1.0 0.53	- 0.06 - 4.52	15 5	73 6	1.0 3.25	- 0.99 - 10.6
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	20 0	78 0	1.0 -	- -	19 1	78 1	1.0 4.00	- 0.25 - 64.0
Lived within ½ mile of Toms River Section	Never Ever	18 2	74 4	1.0 2.05	- 0.33 - 12.7	18 2	76 3	1.0 2.67	- 0.45 - 16.0

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	18 2	71 8	1.0 1.00	- 0.20 - 5.12	18 2	76 4	1.0 2.17	- 0.35 - 13.5
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	16 4	56 23	1.0 0.60	- 0.18 - 2.03	11 9	64 15	1.0 3.20	- 1.16 - 8.84
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	20 0	71 8	1.0 0	- -	15 5	73 6	1.0 3.33	- 1.02 - 10.9
Lived within ½ mile of Toms River Section	Never Ever	18 2	70 9	1.0 0.87	- 0.16 - 4.66	17 3	71 9	1.0 1.42	- 0.33 - 6.07
Total Time Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	6 0	21 2	1.0 0	- -	10 2	46 2	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	5 1	16 7	1.0 0.45	- 0.04 - 4.63	7 5	42 5	1.0 4.39	- 1.16 - 16.6
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	6 0	23 0	1.0 -	- -	10 2	45 2	1.0 4.00	- 0.56 - 28.4
Lived within ½ mile of Toms River Section	Never Ever	6 0	22 1	1.0 0	- -	10 2	43 5	1.0 1.85	- 0.28 - 12.4

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Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	6 0	21 2	1.0 0	- -	10 2	46 1	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	5 1	19 4	1.0 0.93	- 0.09 - 9.34	9 3	44 3	1.0 3.81	- 0.77 - 18.9
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	6 0	23 0	1.0 -	- -	12 0	46 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	6 0	22 1	1.0 0	- -	10 2	45 2	1.0 4.00	- 0.56 - 28.4
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	6 0	21 2	1.0 0	- -	11 1	46 2	1.0 2.45	- 0.14 - 42.6
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	5 1	16 7	1.0 0.45	- 0.04 - 4.63	8 4	42 5	1.0 3.56	- 0.88 - 14.5
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	6 0	23 0	1.0 -	- -	10 2	45 2	1.0 4.00	- 0.56 - 28.4
Lived within ½ mile of Toms River Section	Never Ever	6 0	22 1	1.0 0	- -	10 2	43 5	1.0 1.85	- 0.28 - 12.4

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Table 20b. Interview Study Analysis of Proximity to Sites of Concern by Sex: Leukemia

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Leukemia Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	9 0	31 5	1.0 0	- -	11 2	48 4	1.0 2.45	- 0.33 - 18.4
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	7 2	23 13	1.0 0.47	- 0.08 - 2.84	4 9	41 10	1.0 6.97	- 1.83 - 26.5
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	31 5	1.0 0	- -	9 4	47 4	1.0 4.00	- 1.00 - 16.0
Lived within ½ mile of Toms River Section	Never Ever	8 1	29 7	1.0 0.49	- 0.05 - 4.93	12 1	45 7	1.0 0.49	- 0.05 - 4.93
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	9 0	33 3	1.0 0	- -	11 2	49 2	1.0 6.00	- 0.52 - 69.5
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	9 0	33 3	1.0 0	- -	9 4	48 3	1.0 5.12	- 1.14 - 22.9
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	36 0	1.0 -	- -	12 1	51 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	8 1	33 3	1.0 1.40	- 0.12 - 16.4	12 1	49 2	1.0 2.00	- 0.18 - 22.1

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	9 0	31 5	1.0 0	- -	12 1	48 4	1.0 1.00	- 0.10 - 10.1
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	7 2	23 13	1.0 0.47	- 0.08 - 2.84	5 8	41 10	1.0 6.00	- 1.54 - 23.4
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	9 0	31 5	1.0 0	- -	9 4	47 4	1.0 4.00	- 1.00 - 16.0
Lived within ½ mile of Toms River Section	Never Ever	8 1	29 7	1.0 0.49	- 0.05 - 4.93	12 1	45 7	1.0 0.49	- 0.05 - 4.93
Total Time Exposure: Leukemia Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	2 0	6 2	1.0 0	- -	5 2	26 2	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	2 0	5 3	1.0 0	- -	2 5	25 2	1.0 16.9	- 1.94 - 146
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	2 0	8 0	1.0 -	- -	5 2	26 1	1.0 8.00	- 0.73 - 88.2
Lived within ½ mile of Toms River Section	Never Ever	2 0	7 1	1.0 0	- -	6 1	25 3	1.0 1.63	- 0.08 - 34.6

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Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never	2	6	1.0	-	5	26	1.0	-
	Ever	0	2	0	-	2	1	-	-
Lived within ½ mile of Ciba-Geigy Pipeline	Never	2	7	1.0	-	4	26	1.0	-
	Ever	0	1	0	-	3	1	11.2	1.16 - 108
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	2	8	1.0	-	7	27	1.0	-
	Ever	0	0	-	-	0	0	-	-
Lived within ½ mile of Toms River Section	Never	2	7	1.0	-	6	26	1.0	-
	Ever	0	1	0	-	1	1	4.00	0.25 - 64.0
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never	2	6	1.0	-	6	26	1.0	-
	Ever	0	2	0	-	1	2	2.45	0.14 - 42.6
Lived within ½ mile of Ciba-Geigy Pipeline	Never	2	5	1.0	-	3	25	1.0	-
	Ever	0	3	0	-	4	2	13.7	1.51 - 125
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	2	8	1.0	-	5	26	1.0	-
	Ever	0	0	-	-	2	1	8.00	0.73 - 88.2
Lived within ½ mile of Toms River Section	Never	2	7	1.0	-	6	25	1.0	-
	Ever	0	1	0	-	1	3	1.63	0.08 - 34.6

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Table 20c. Interview Study Analysis of Proximity to Sites of Concern by Sex: Nervous System Cancers

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	9 2	40 3	1.0 3.15	- 0.43 - 23.4	6 1	28 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	9 2	33 10	1.0 0.75	- 0.15 - 3.81	6 1	23 5	1.0 0.79	- 0.08 - 7.28
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	11 0	40 3	1.0 0	- -	6 1	26 2	1.0 2.00	- 0.18 - 22.1
Lived within ½ mile of Toms River Section	Never Ever	10 1	41 2	1.0 2.00	- 0.18 - 22.1	5 2	26 2	1.0 4.00	- 0.56 - 28.4
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	10 1	41 1	1.0 4.00	- 0.25 - 64.0	7 0	28 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	10 1	38 4	1.0 0.93	- 0.09 - 9.34	6 1	25 3	1.0 1.33	- 0.14 - 12.8
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	11 0	42 0	1.0 -	- -	7 0	27 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	10 1	41 1	1.0 3.46	- 0.22 - 55.8	6 1	27 1	1.0 4.00	- 0.25 - 64.0

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never	9	40	1.0	-	6	28	1.0	-
	Ever	2	3	3.15	0.43 - 23.4	1	0	-	-
Lived within ½ mile of Ciba-Geigy Pipeline	Never	9	33	1.0	-	6	23	1.0	-
	Ever	2	10	0.75	0.15 - 3.81	1	5	0.79	0.08 - 7.28
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	11	40	1.0	-	6	26	1.0	-
	Ever	0	3	0	-	1	2	2.00	0.18 - 22.1
Lived within ½ mile of Toms River Section	Never	10	41	1.0	-	5	26	1.0	-
	Ever	1	2	2.00	0.18 - 22.1	2	2	4.00	0.56 - 28.4
Total Time Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never	4	15	1.0	-	5	20	1.0	-
	Ever	0	0	-	-	0	0	-	-
Lived within ½ mile of Ciba-Geigy Pipeline	Never	3	11	1.0	-	5	17	1.0	-
	Ever	1	4	0.93	0.08 - 10.5	0	3	0	-
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	4	15	1.0	-	5	19	1.0	-
	Ever	0	0	-	-	0	1	0	-
Lived within ½ mile of Toms River Section	Never	4	15	1.0	-	4	18	1.0	-
	Ever	0	0	-	-	1	2	2.00	0.18 - 22.1

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Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	4 0	15 0	1.0 -	- -	5 0	20 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	3 1	12 3	1.0 1.28	- 0.11 - 14.8	5 0	18 2	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	4 0	15 0	1.0 -	- -	5 0	19 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	4 0	15 0	1.0 -	- -	4 1	19 1	1.0 4.00	- 0.25 - 64.0
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	4 0	15 0	1.0 -	- -	5 0	20 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	3 1	11 4	1.0 0.93	- 0.08 - 10.5	5 0	17 3	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	4 0	15 0	1.0 -	- -	5 0	19 1	1.0 0	- -
Lived within ½ mile of Toms River Section	Never Ever	4 0	15 0	1.0 -	- -	4 1	18 2	1.0 2.00	- 0.18 - 22.1

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Table 20d. Interview Study Analysis of Proximity to Sites of Concern by Sex: Brain and Central Nervous System Cancers

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	6 2	29 3	1.0 3.15	- 0.43 - 23.4	4 1	20 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	7 1	26 6	1.0 0.63	- 0.07 - 5.89	4 1	16 4	1.0 1.00	- 0.10 - 10.1
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	8 0	29 3	1.0 0	- -	4 1	19 1	1.0 4.00	- 0.25 - 64.0
Lived within ½ mile of Toms River Section	Never Ever	7 1	30 2	1.0 2.00	- 0.18 - 22.1	4 1	18 2	1.0 2.00	- 0.18 - 22.1
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never Ever	7 1	30 1	1.0 4.00	- 0.25 - 64.0	5 0	20 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	8 0	30 1	1.0 0	- -	4 1	18 2	1.0 2.00	- 0.18 - 22.1
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	8 0	31 0	1.0 -	- -	5 0	20 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	7 1	30 1	1.0 3.46	- 0.22 - 55.8	5 0	19 1	1.0 0	- -

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Lived within ½ mile of Ciba-Geigy	Never	6	29	1.0	-	4	20	1.0	-
	Ever	2	3	3.15	0.43 - 23.4	1	0	-	-
Lived within ½ mile of Ciba-Geigy Pipeline	Never	7	26	1.0	-	4	16	1.0	-
	Ever	1	6	0.63	0.07 - 5.89	1	4	1.00	0.10 - 10.1
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	8	29	1.0	-	4	19	1.0	-
	Ever	0	3	0	-	1	1	4.00	0.25 - 64.0
Lived within ½ mile of Toms River Section	Never	7	30	1.0	-	4	18	1.0	-
	Ever	1	2	2.00	0.18 - 22.1	1	2	2.00	0.18 - 22.1
Total Time Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never	1	4	1.0	-	3	12	1.0	-
	Ever	0	0	-	-	0	0	-	-
Lived within ½ mile of Ciba-Geigy Pipeline	Never	1	4	1.0	-	3	10	1.0	-
	Ever	0	0	-	-	0	2	0	-
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never	1	4	1.0	-	3	12	1.0	-
	Ever	0	0	-	-	0	0	-	-
Lived within ½ mile of Toms River Section	Never	1	4	1.0	-	3	10	1.0	-
	Ever	0	0	-	-	0	2	0	-

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Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	1 0	4 0	1.0 -	- -	3 0	12 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	1 0	4 0	1.0 -	- -	3 0	11 1	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	1 0	4 0	1.0 -	- -	3 0	12 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	1 0	4 0	1.0 -	- -	3 0	11 1	1.0 0	- -
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Lived within ½ mile of Ciba-Geigy	Never Ever	1 0	4 0	1.0 -	- -	3 0	12 0	1.0 -	- -
Lived within ½ mile of Ciba-Geigy Pipeline	Never Ever	1 0	4 0	1.0 -	- -	3 0	10 2	1.0 0	- -
Lived within ½ mile of a Break in Ciba-Geigy Pipeline	Never Ever	1 0	4 0	1.0 -	- -	3 0	12 0	1.0 -	- -
Lived within ½ mile of Toms River Section	Never Ever	1 0	4 0	1.0 -	- -	3 0	10 2	1.0 0	- -

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Table 21. Significant ($p < .01$) Correlation Coefficients Among Select Environmental Indices for Interview Study Subjects During the Total Study Time Period

	Time-specific Parkway Well Field	Time-specific Holly Well Field	Ciba-Geigy Ambient Gas
Time-specific Holly Well Field	-.25		
Ciba-Geigy Ambient Gas		.36	
Oyster Creek Ambient Gas	-.37	.51	.21
Indian Head Well Field		.22	.56
Route 70 Well Field			.47
Proximity to Ciba-Geigy Pipeline	.30		
Proximity to Ciba-Geigy Pipeline Breaks	.23		
Proximity to Ciba-Geigy		.26	.81
Proximity to Section of the Toms River		.31	.68

Table 22. Interview Study Parental Occupational Data

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent/ Average	Number	Percent/ Average
Children with parental occupational data:				
Birth mother	39	97.5	157	98.7
Adoptive/step/custodial mother	1	2.5	7	4.4
Birth father	40	100.0	156	98.1
Adoptive/step/custodial father	2	5.0	7	4.4
Parents contributing to mother's occupational composite:				
1	38	95.0	153	96.2
2	1	2.5	6	3.8
Unknown	1	2.5	0	0.0
Parents contributing to father's occupational composite:				
1	38	95.0	153	96.2
2	2	5.0	5	3.1
Unknown	0	0.0	1	0.6
Total Jobs/Hobbies Reported:				
Composite Mother	155	0=3.9	546	0=3.4
Composite Father	113	0=2.8	458	0=2.9
Total # Jobs:				
Composite Mother	150	0=3.8	523	0=3.3
Composite Father	110	0=2.8	437	0=2.7
Total # Hobbies/Short Term or <20 hr/wk Jobs:				
Composite Mother	5	0=0.13	23	0=0.14
Composite Father	3	0=0.08	21	0=0.13

Note: Composite mother includes information on a child's birth, adoptive, step, and/or custodial mother;
Composite father includes information on a child's birth, adoptive, step, and/or custodial father.

Table 23. Interview Study Occupational SOC codes

Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
All Mothers				
Executives, administrative and managerial occupations (11-14)				
Ever	4	10.0	6	3.8
Never	35	87.5	153	96.2
Unknown	1	2.5	0	0.0
Engineers, surveyors and architects (16)				
Ever	0	0.0	1	0.6
Never	39	97.5	158	99.4
Unknown	1	2.5	0	0.0
Natural sciences and computer, mathematical and operations research (17-18)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Social scientists, social workers, religious workers and lawyers (19-21)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Teachers, librarians and counselors (22-25)				
Ever	7	17.5	15	9.4
Never	32	80.0	144	90.6
Unknown	1	2.5	0	0.0
Health diagnosing and treating practitioners (26-28)				
Ever	0	0.0	1	0.6
Never	39	97.5	158	99.4
Unknown	1	2.5	0	0.0

Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Registered nurses, pharmacists, dieticians, therapists and physician assistants (29-30)				
Ever	2	5.0	8	5.0
Never	37	92.5	151	95.0
Unknown	1	2.5	0	0.0
Writers, artists, entertainers and athletes (32-34)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Health technologists and technicians (36)				
Ever	1	2.5	3	1.9
Never	38	95.0	156	98.1
Unknown	1	2.5	0	0.0
Technologists and technicians, except health (37-39)				
Ever	1	2.5	6	3.8
Never	38	95.0	153	96.2
Unknown	1	2.5	0	0.0
Marketing and sales occupations (40-44)				
Ever	7	17.5	32	20.1
Never	32	80.0	127	79.9
Unknown	1	2.5	0	0.0
Administrative support occupations, including clerical (45-47)				
Ever	16	40.0	57	35.8
Never	23	57.5	102	64.2
Unknown	1	2.5	0	0.0
Service occupations (50-52)				
Ever	7	17.5	31	19.5
Never	32	80.0	128	80.5
Unknown	1	2.5	0	0.0

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Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Agricultural, forestry and fishing occupations (55-58)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Mechanics and repairers (60-61)				
Ever	1	2.5	0	0.0
Never	38	95.0	159	100.0
Unknown	1	2.5	0	0.0
Construction and extractive occupations (63-65)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Precision production occupations (67-69)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Production working occupations (71-78)				
Ever	0	0.0	1	0.6
Never	39	97.5	158	99.4
Unknown	1	2.5	0	0.0
Transportation and material moving occupations (81-83)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Handlers, equipment cleaners, helpers and laborers (85-87)				
Ever	0	0.0	1	0.6
Never	39	97.5	158	99.4
Unknown	1	2.5	0	0.0

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Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Military (91)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
High school and undergraduate students				
Ever	0	0.0	4	2.5
Never	39	97.5	155	97.5
Unknown	1	2.5	0	0.0
Graduate students				
Ever	0	0.0	1	0.6
Never	39	97.5	158	99.4
Unknown	1	2.5	0	0.0
Homemaker, unemployed, disabled or retired				
Ever	33	82.5	143	89.9
Never	6	15.0	16	10.1
Unknown	1	2.5	0	0.0
All Fathers				
Executives, administrative and managerial occupations (11-14)				
Ever	7	17.5	29	18.2
Never	33	82.5	129	81.1
Unknown	0	0.0	1	0.6
Engineers, surveyors and architects (16)				
Ever	2	5.0	7	4.4
Never	38	95.0	151	95.0
Unknown	0	0.0	1	0.6
Natural scientists and mathematicians (17-18)				
Ever	1	2.5	2	1.3
Never	39	97.5	156	98.1
Unknown	0	0.0	1	0.6

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Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Social scientists, social workers, religious workers and lawyers (19-21)				
Ever	0	0.0	3	1.9
Never	40	100.0	155	97.5
Unknown	0	0.0	1	0.6
Teachers, librarians and counselors (22-25)				
Ever	2	5.0	11	6.9
Never	38	95.0	147	92.5
Unknown	0	0.0	1	0.6
Health diagnosing and treating practitioners (26-28)				
Ever	0	0.0	4	2.5
Never	40	100.0	154	96.9
Unknown	0	0.0	1	0.6
Registered nurses, pharmacists, dieticians, therapists and physician assistants (29-30)				
Ever	0	0.0	0	0.0
Never	40	100.0	158	99.4
Unknown	0	0.0	1	0.6
Writers, artists, entertainers and athletes (32-34)				
Ever	3	7.5	2	1.3
Never	37	92.5	156	98.1
Unknown	0	0.0	1	0.6
Health technologists and technicians (36)				
Ever	0	0.0	0	0.0
Never	40	100.0	158	99.4
Unknown	0	0.0	1	0.6

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Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Technologists and technicians, except health (37-39)				
Ever	1	2.5	12	7.5
Never	39	97.5	146	91.8
Unknown	0	0.0	1	0.6
Marketing and sales occupations (40-44)				
Ever	8	20.0	37	23.3
Never	32	80.0	121	76.1
Unknown	0	0.0	1	0.6
Administrative support occupations, including clerical (45-47)				
Ever	4	10.0	17	10.7
Never	36	90.0	141	88.7
Unknown	0	0.0	1	0.6
Service occupations (50-52)				
Ever	4	10.0	29	18.2
Never	36	90.0	129	81.1
Unknown	0	0.0	1	0.6
Agricultural, forestry and fishing occupations (55-58)				
Ever	2	5.0	3	1.9
Never	38	95.0	155	97.5
Unknown	0	0.0	1	0.6
Mechanics and repairers (60-61)				
Ever	9	22.5	22	13.8
Never	31	77.5	136	85.5
Unknown	0	0.0	1	0.6
Construction and extractive occupations (63-65)				
Ever	7	17.5	26	16.4
Never	33	82.5	132	83.0
Unknown	0	0.0	1	0.6

Table 23: page 6 of 8

Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Precision production occupations (67-69)				
Ever	3	7.5	11	6.9
Never	37	92.5	147	92.5
Unknown	0	0.0	1	0.6
Production working occupations (71-78)				
Ever	5	12.5	11	6.9
Never	35	87.5	147	92.5
Unknown	0	0.0	1	0.6
Transportation and material moving occupations (81-83)				
Ever	4	10.0	14	8.8
Never	36	90.0	144	90.6
Unknown	0	0.0	1	0.6
Handlers, equipment cleaners, helpers and laborers (85-87)				
Ever	2	5.0	2	1.3
Never	38	95.0	156	98.1
Unknown	0	0.0	1	0.6
Military (91)				
Ever	0	0.0	3	1.9
Never	40	100.0	155	97.5
Unknown	0	0.0	1	0.6
High school and undergraduate students				
Ever	1	2.5	3	1.9
Never	39	97.5	155	97.5
Unknown	0	0.0	1	0.6
Graduate students				
Ever	0	0.0	2	1.3
Never	40	100.0	156	98.1
Unknown	0	0.0	1	0.6

Table 23: page 7 of 8

Occupational Group (SOC code)	Cases		Controls	
	Number	Percent	Number	Percent
Homemaker, unemployed, disabled or retired				
Ever	2	5.0	12	7.5
Never	38	95.0	146	91.8
Unknown	0	0.0	1	0.6

Table 24. Interview Study Occupational NAICS codes

Industry Group (NAICS code)	Cases		Controls	
	Number	Percent	Number	Percent
All Mothers				
Agriculture, forestry, fishing and hunting (11)				
Ever	0	0.0	0	0.0
Never	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Utilities (22)				
Ever	0	0.0	2	1.3
Never	39	97.5	157	98.7
Unknown	1	2.5	0	0.0
Construction (23)				
Ever	3	7.5	3	1.9
Never	36	90.0	156	98.1
Unknown	1	2.5	0	0.0
Manufacturing (31-33)				
Ever	0	0.0	10	6.3
Never	39	97.5	149	93.7
Unknown	1	2.5	0	0.0
Wholesale trade (42)				
Ever	0	0.0	1	0.6
Never	39	97.5	158	99.4
Unknown	1	2.5	0	0.0
Retail trade (44-45)				
Ever	8	20.0	38	23.9
Never	31	77.5	121	76.1
Unknown	1	2.5	0	0.0
Transportation and warehousing (48-49)				
Ever	2	5.0	3	1.9
Never	37	92.5	156	98.1
Unknown	1	2.5	0	0.0

Industry Group (NAICS code)	Cases		Controls	
	Number	Percent	Number	Percent
Information (51)				
Ever	1	2.5	8	5.0
Never	38	95.0	151	95.0
Unkn0own	1	2.5	0	0.0
Finance and insurance (52)				
Ever	5	12.5	15	9.4
Never	34	85.0	144	90.6
Unknown	1	2.5	0	0.0
Real estate, rental and leasing (53)				
Ever	2	5.0	8	5.0
Never	37	92.5	151	95.0
Unknown	1	2.5	0	0.0
Professional, scientific and technical services (54)				
Ever	2	5.0	8	5.0
Never	37	92.5	151	95.0
Unknown	1	2.5	0	0.0
Management of companies and enterprises (55)				
Ever	1	2.5	5	3.1
Never	38	95.0	154	96.9
Unknown	1	2.5	0	0.0
Administrative, support, waste management and remediation services (56)				
Ever	1	2.5	10	6.3
Never	38	95.0	149	93.7
Unknown	1	2.5	0	0.0
Educational services (61)				
Ever	6	15.0	22	13.8
Never	33	82.5	137	86.2
Unknown	1	2.5	0	0.0

Table 24: page 2 of 6

Industry Group (NAICS code)	Cases		Controls	
	Number	Percent	Number	Percent
Health care and social assistance (62)				
Ever	11	27.5	28	17.6
Never	28	70.0	131	82.4
Unknown	1	2.5	0	0.0
Arts, entertainment and recreation (71)				
Ever	2	5.0	2	1.3
Never	37	92.5	157	98.7
Unknown	1	2.5	0	0.0
Accommodation and food services (72)				
Ever	6	15.0	20	12.6
Never	33	82.5	139	87.4
Unknown	1	2.5	0	0.0
Other services, except public administration (81)				
Ever	4	10.0	6	3.8
Never	35	87.5	153	96.2
Unknown	1	2.5	0	0.0
Public administration (92)				
Ever	4	10.0	7	4.4
Never	35	87.5	152	95.6
Unknown	1	2.5	0	0.0
Homemaker, unemployed, disabled or retired				
Ever	34	85.0	143	89.9
Never	5	12.5	16	10.1
Unknown	1	2.5	0	0.0
All Fathers				
Agriculture, forestry, fishing and hunting (11)				
Ever	0	0.0	1	0.6
Never	40	100.0	157	98.7
Unknown	0	0.0	1	0.6

Table 24: page 3 of 6

Industry Group (NAICS code)	Cases		Controls	
	Number	Percent	Number	Percent
Utilities (22)				
Ever	4	10.0	5	3.1
Never	36	90.0	153	96.2
Unknown	0	0.0	1	0.6
Construction (23)				
Ever	9	22.5	31	19.5
Never	31	77.5	127	79.9
Unknown	0	0.0	1	0.6
Manufacturing (31-33)				
Ever	7	17.5	24	15.1
Never	33	82.5	134	84.3
Unknown	0	0.0	1	0.6
Wholesale trade (42)				
Ever	2	5.0	7	4.4
Never	38	95.0	151	95.0
Unknown	0	0.0	1	0.6
Retail Trade (44-45)				
Ever	7	17.5	36	22.6
Never	33	82.5	122	76.7
Unknown	0	0.0	1	0.6
Transportation and warehousing (48-49)				
Ever	3	7.5	16	10.1
Never	37	92.5	142	89.3
Unknown	0	0.0	1	0.6
Information (51)				
Ever	6	15.0	14	8.8
Never	34	85.0	144	90.6
Unknown	0	0.0	1	0.6
Finance and insurance (52)				
Ever	1	2.5	13	8.2
Never	39	97.5	145	91.2
Unknown	0	0.0	1	0.6

Table 24: page 4 of 6

Industry Group (NAICS code)	Cases		Controls	
	Number	Percent	Number	Percent
Real estate, rental and leasing (53)				
Ever	2	5.0	7	4.4
Never	38	95.0	151	95.0
Unknown	0	0.0	1	0.6
Professional, scientific and technical services (54)				
Ever	2	5.0	12	7.5
Never	38	95.0	146	91.8
Unknown	0	0.0	1	0.6
Management of companies and enterprises (55)				
Ever	2	5.0	5	3.1
Never	38	95.0	153	96.2
Unknown	0	0.0	1	0.6
Administrative, support, waste management and remediation services (56)				
Ever	2	5.0	7	4.4
Never	38	95.0	151	95.0
Unknown	0	0.0	1	0.6
Educational services (61)				
Ever	2	5.0	15	9.4
Never	38	95.0	143	89.9
Unknown	0	0.0	1	0.6
Health care and social assistance (62)				
Ever	1	2.5	8	5.0
Never	39	97.5	150	94.3
Unknown	0	0.0	1	0.6
Arts, entertainment and recreation (71)				
Ever	1	2.5	7	4.4
Never	39	97.5	151	95.0
Unknown	0	0.0	1	0.6

Table 24: page 5 of 6

Industry Group (NAICS code)	Cases		Controls	
	Number	Percent	Number	Percent
Accommodation and food services (72)				
Ever	0	0.0	9	5.7
Never	40	100.0	149	93.7
Unknown	0	0.0	1	0.6
Other services, except public administration (81)				
Ever	1	2.5	9	5.7
Never	39	97.5	149	93.7
Unknown	0	0.0	1	0.6
Public administration (92)				
Ever	6	15.0	30	18.9
Never	34	85.0	128	80.5
Unknown	0	0.0	1	0.6
Homemaker, unemployed, disabled or retired				
Ever	2	5.0	12	7.5
Never	38	95.0	146	91.8
Unknown	0	0.0	1	0.6

Table 24: page 6 of 6

Table 25. Interview Study Industrial Hygiene Rating of the Chemicals/Substances and Job Activities at Work

IH Rating Group	Cases		Controls	
	Number	Percent	Number	Percent
All Mothers				
Solvents, dry cleaning agents and degreasers (A)				
None	35	87.5	143	89.9
Low	2	5.0	14	8.8
High	2	5.0	2	1.3
Unknown	1	2.5	0	0.0
Paints and thinners (B)				
None	38	95.0	147	92.5
Low	1	2.5	11	6.9
High	0	0.0	1	0.6
Unknown	1	2.5	0	0.0
Dyes and pigments (C)				
None	36	90.0	149	93.7
Low	3	7.5	10	6.3
High	0	0.0	0	0.0
Unknown	1	2.5	0	0.0
Petroleum products (D)				
None	39	97.5	158	99.4
Low	0	0.0	1	0.6
High	0	0.0	0	0.0
Unknown	1	2.5	0	0.0
Pesticides, herbicides & fungicides (E)				
None	39	97.5	155	97.5
Low	0	0.0	4	2.5
High	0	0.0	0	0.0
Unknown	1	2.5	0	0.0
Plastics and resins (F)				
None	36	90.0	139	87.4
Low	3	7.5	20	12.6
High	0	0.0	0	0.0
Unknown	1	2.5	0	0.0

IH Rating Group	Cases		Controls	
	Number	Percent	Number	Percent
Metals (G)				
None	38	95.0	153	96.2
Low	1	2.5	6	3.8
High	0	0.0	0	0.0
Unknown	1	2.5	0	0.0
Radiation, ionizing and low frequency (H)				
None	28	70.0	133	83.7
Low	10	25.0	26	16.4
High	1	2.5	0	0.0
Unknown	1	2.5	0	0.0
Painting, printing, dye coloring and graphics (1)				
Never	34	85.0	136	85.5
Ever	5	12.5	23	14.5
Unknown	1	2.5	0	0.0
Electrical and electronics (2)				
Never	28	70.0	132	83.0
Ever	11	27.5	27	17.0
Unknown	1	2.5	0	0.0
Metal work (3)				
Never	38	95.5	159	100.0
Ever	1	2.5	0	0.0
Unknown	1	2.5	0	0.0
Motor vehicle work (4)				
Never	39	97.5	157	98.7
Ever	0	0.0	2	1.3
Unknown	1	2.5	0	0.0
Chemical manufacturing (5)				
Never	39	97.5	159	100.0
Ever	0	0.0	0	0.0
Unknown	1	2.5	0	0.0
Agricultural, yard maintenance and pest control (6)				
Never	39	97.5	156	98.1
Ever	0	0.0	3	1.9
Unknown	1	2.5	0	0.0

Table 25: page 2 of 5

IH Rating Group	Cases		Controls	
	Number	Percent	Number	Percent
Cleaning and Maintenance (7)				
Never	38	95.0	150	94.3
Ever	1	2.5	9	5.7
Unknown	1	2.5	0	0.0
Medical professions (8)				
Never	36	90.0	138	86.8
Ever	3	7.5	21	13.2
Unknown	1	2.5	0	0.0
Radiation (9)				
Never	38	95.0	158	99.4
Ever	1	2.5	1	0.6
Unknown	1	2.5	0	0.0
All Fathers				
Solvents, dry cleaning agents and degreasers (A)				
None	30	75.0	125	78.6
Low	7	17.5	20	12.6
High	3	7.5	13	8.2
Unknown	0	0.0	1	0.6
Paints and thinners (B)				
None	33	82.5	136	85.5
Low	6	15.0	12	7.5
High	1	2.5	10	6.3
Unknown	0	0.0	1	0.6
Dyes and pigments (C)				
None	37	92.5	157	98.7
Low	0	0.0	1	0.6
High	3	7.5	0	0.0
Unknown	0	0.0	1	0.6
Petroleum products (D)				
None	24	60.0	111	69.8
Low	10	25.0	25	15.7
High	6	15.0	22	13.8
Unknown	0	0.0	1	0.6

Table 25: page 3 of 5

IH Rating Group	Cases		Controls	
	Number	Percent	Number	Percent
Pesticides, herbicides & fungicides (E)				
None	38	95.0	143	89.9
Low	0	0.0	12	7.5
High	2	5.0	3	1.9
Unknown	0	0.0	1	0.6
Plastics and resins (F)				
None	27	67.5	124	78.0
Low	4	10.0	18	11.3
High	9	22.5	16	10.1
Unknown	0	0.0	1	0.6
Metals (G)				
None	32	80.0	128	80.5
Low	3	7.5	18	11.3
High	5	12.5	12	7.5
Unknown	0	0.0	1	0.6
Radiation, ionizing and low frequency (H)				
None	30	75.0	120	75.5
Low	5	12.5	32	20.1
High	5	12.5	6	3.8
Unknown	0	0.0	1	0.6
Painting, printing, dye coloring and graphics (1)				
Never	35	87.5	128	80.5
Ever	5	12.5	30	18.9
Unknown	0	0.0	1	0.6
Electrical and electronics (2)				
Never	28	70.0	119	74.8
Ever	12	30.0	39	24.5
Unknown	0	0.0	1	0.6
Metal work (3)				
Never	34	85.0	136	85.5
Ever	6	15.0	22	13.8
Unknown	0	0.0	1	0.6

Table 25: page 4 of 5

IH Rating Group	Cases		Controls	
	Number	Percent	Number	Percent
Motor vehicle work (4)				
Never	32	80.0	118	74.2
Ever	8	20.0	40	25.2
Unknown	0	0.0	1	0.6
Chemical manufacturing (5)				
Never	36	90.0	155	97.5
Ever	4	10.0	3	1.9
Unknown	0	0.0	1	0.6
Agricultural, yard maintenance and pest control (6)				
Never	38	95.0	146	91.8
Ever	2	5.0	12	7.5
Unknown	0	0.0	1	0.6
Cleaning and maintenance (7)				
Never	36	90.0	148	93.1
Ever	4	10.0	10	6.3
Unknown	0	0.0	1	0.6
Medical professions (8)				
Never	40	100.0	154	96.9
Ever	0	0.0	4	2.5
Unknown	0	0.0	1	0.6
Radiation (9)				
Never	38	95.0	153	96.2
Ever	2	5.0	5	3.1
Unknown	0	0.0	1	0.6

Table 25: page 5 of 5

Table 26a. Interview Study Analysis of IH Rating of Job Exposures and Activities: Leukemia and Nervous System Cancers

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	4	16	1.00	0.32 - 3.08	10	33	1.27	0.57 - 2.84
	Prenatal	4	9	1.78	0.55 - 5.77	5	26	0.69	0.24 - 1.98
	Postnatal	4	11	1.48	0.46 - 4.75	10	30	1.43	0.63 - 3.23
Ever exposed to paints or thinners (B)	Total	1	12	0.31	0.04 - 2.50	7	22	1.31	0.52 - 3.31
	Prenatal	1	6	0.67	0.08 - 5.54	2	14	0.48	0.10 - 2.34
	Postnatal	1	8	0.50	0.06 - 4.00	6	20	1.22	0.45 - 3.28
Ever exposed to dyes or pigments (C)	Total	3	10	1.20	0.33 - 4.36	3	1	12.0	1.25 - 115
	Prenatal	3	5	2.40	0.57 - 10.0	3	1	12.0	1.25 - 115
	Postnatal	3	5	2.40	0.57 - 10.0	3	1	12.0	1.25 - 115
Ever exposed to petroleum products (D)	Total	0	1	0	-	16	47	1.57	0.77 - 3.21
	Prenatal	0	0	-	-	11	36	1.26	0.58 - 2.72
	Postnatal	0	1	0	-	16	42	1.92	0.92 - 4.02

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	4	0	-	2	15	0.52	0.11 - 2.33
	Prenatal	0	1	0	-	2	8	0.97	0.20 - 4.75
	Postnatal	0	2	0	-	2	14	0.55	0.12 - 2.52
Ever exposed to plastics or resins (F)	Total	3	20	0.57	0.16 - 2.01	13	34	1.73	0.81 - 3.70
	Prenatal	2	12	0.66	0.14 - 3.00	11	25	1.90	0.84 - 4.32
	Postnatal	3	18	0.64	0.18 - 2.28	12	33	1.60	0.74 - 3.47
Ever exposed to metals (G)	Total	1	6	0.65	0.07 - 5.72	8	30	1.07	0.43 - 2.63
	Prenatal	0	3	0	-	5	22	0.90	0.31 - 2.62
	Postnatal	1	4	1.00	0.10 - 10.1	8	30	1.07	0.43 - 2.63
Ever exposed to radiation, ionizing or low frequency (H)	Total	11	26	2.30	0.94 - 5.62	10	38	1.05	0.46 - 2.41
	Prenatal	3	10	1.42	0.31 - 6.37	6	25	0.91	0.35 - 2.38
	Postnatal	11	21	3.19	1.22 - 8.30	10	36	1.18	0.52 - 2.69
Ever worked in painting, printing, dye coloring or graphics (1)	Total	5	23	0.86	0.31 - 2.37	5	30	0.61	0.22 - 1.70
	Prenatal	5	13	1.61	0.54 - 4.82	1	20	0.17	0.02 - 1.29
	Postnatal	5	16	1.28	0.44 - 3.72	4	27	0.53	0.17 - 1.64

Table 26: page 2 of 28

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever did electrical or electronics work (2)	Total	11	27	2.10	0.88 - 4.98	12	39	1.33	0.60 - 2.94
	Prenatal	2	11	0.73	0.15 - 3.67	6	22	1.04	0.40 - 2.71
	Postnatal	11	21	2.99	1.19 - 7.49	12	37	1.49	0.67 - 3.32
Ever did metal working (3)	Total	1	0	-	-	6	22	1.10	0.38 - 3.20
	Prenatal	0	0	-	-	4	16	1.10	0.33 - 3.65
	Postnatal	1	0	-	-	6	21	1.16	0.40 - 3.35
Ever did motor vehicle work (4)	Total	0	2	0	-	8	40	0.75	0.32 - 1.74
	Prenatal	0	0	-	-	6	32	0.70	0.27 - 1.78
	Postnatal	0	2	0	-	8	35	0.92	0.39 - 2.17
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	4	3	5.33	1.19 - 23.8
	Prenatal	0	0	-	-	4	2	16.0	1.79 - 143
	Postnatal	0	0	-	-	4	3	5.33	1.19 - 23.8
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	3	0	-	2	12	0.66	0.14 - 3.00
	Prenatal	0	0	-	-	1	5	0.76	0.09 - 6.51
	Postnatal	0	2	0	-	2	11	0.72	0.16 - 3.32

Table 26: page 3 of 28

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in cleaning or maintenance (7)	Total	1	9	0.43	0.05 - 3.50	4	10	1.75	0.49 - 6.27
	Prenatal	0	3	0	-	3	5	2.93	0.55 - 15.6
	Postnatal	1	7	0.55	0.07 - 4.71	4	10	1.75	0.49 - 6.27
Ever worked in the medical professions (8)	Total	3	21	0.57	0.16 - 2.02	0	4	0	-
	Prenatal	3	13	0.98	0.26 - 3.62	0	4	0	-
	Postnatal	3	18	0.69	0.19 - 2.44	0	4	0	-
Ever wore radiation badge (9)	Total	1	1	4.00	0.25 - 64.0	2	5	1.67	0.30 - 9.39
	Prenatal	1	1	4.00	0.25 - 64.0	1	4	1.00	0.11 - 8.95
	Postnatal	1	0	-	-	2	5	1.67	0.30 - 9.39
Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	1	7	0.57	0.07 - 4.64	3	16	0.70	0.18 - 2.71
	Prenatal	1	5	0.80	0.09 - 6.85	2	13	0.58	0.12 - 2.76
	Postnatal	1	4	1.00	0.11 - 8.95	3	15	0.77	0.20 - 2.92
Ever exposed to paints or thinners (B)	Total	1	8	0.48	0.06 - 4.01	3	9	1.40	0.34 - 5.79
	Prenatal	1	4	1.00	0.11 - 8.95	1	6	0.63	0.07 - 5.89
	Postnatal	1	5	0.80	0.09 - 6.85	2	8	1.00	0.19 - 5.37

Table 26: page 4 of 28

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to dyes or pigments (C)	Total	1	5	0.80	0.09 - 6.85	1	1	4.00	0.25 - 64.0
	Prenatal	1	3	1.33	0.14 - 12.8	1	1	4.00	0.25 - 64.0
	Postnatal	1	2	2.00	0.18 - 22.1	1	1	4.00	0.25 - 64.0
Ever exposed to petroleum products (D)	Total	0	0	-	-	8	21	1.94	0.66 - 5.68
	Prenatal	0	0	-	-	6	19	1.33	0.45 - 3.95
	Postnatal	0	0	-	-	8	20	2.28	0.75 - 6.92
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	3	0	-	1	5	0.79	0.08 - 7.28
	Prenatal	0	0	-	-	1	2	1.81	0.16 - 20.1
	Postnatal	0	2	0	-	1	4	1.00	0.10 - 10.1
Ever exposed to plastics or resins (F)	Total	1	5	0.79	0.08 - 7.28	4	17	0.91	0.27 - 3.03
	Prenatal	1	4	1.00	0.10 - 10.1	4	16	0.96	0.29 - 3.15
	Postnatal	1	4	1.00	0.10 - 10.1	3	17	0.64	0.17 - 2.44
Ever exposed to metals (G)	Total	0	2	0	-	2	15	0.44	0.09 - 2.21
	Prenatal	0	2	0	-	2	13	0.56	0.12 - 2.69
	Postnatal	0	1	0	-	2	15	0.44	0.09 - 2.21

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to radiation, ionizing or low frequency (H)	Total	3	9	1.74	0.37 - 8.25	1	18	0.16	0.02 - 1.34
	Prenatal	2	7	1.22	0.18 - 8.37	0	15	0	-
	Postnatal	3	6	3.09	0.58 - 16.4	1	17	0.19	0.02 - 1.54
Ever worked in painting, printing, dye coloring or graphics (1)	Total	2	14	0.54	0.11 - 2.51	2	15	0.48	0.10 - 2.30
	Prenatal	2	9	0.87	0.17 - 4.49	1	12	0.30	0.04 - 2.46
	Postnatal	2	10	0.78	0.16 - 3.87	1	13	0.26	0.03 - 2.16
Ever did electrical or electronics work (2)	Total	2	9	1.00	0.19 - 5.37	2	15	0.46	0.10 - 2.24
	Prenatal	1	7	0.51	0.05 - 4.93	1	13	0.27	0.03 - 2.15
	Postnatal	2	6	1.67	0.30 - 9.39	2	14	0.54	0.11 - 2.71
Ever did metal working (3)	Total	0	0	-	-	1	9	0.38	0.04 - 3.37
	Prenatal	0	0	-	-	1	8	0.47	0.06 - 3.87
	Postnatal	0	0	-	-	1	9	0.38	0.04 - 3.37
Ever did motor vehicle work (4)	Total	0	0	-	-	3	19	0.56	0.15 - 2.14
	Prenatal	0	0	-	-	2	17	0.40	0.09 - 1.87
	Postnatal	0	0	-	-	3	17	0.69	0.18 - 2.73

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	1	1	4.00	0.25 - 64.0
	Prenatal	0	0	-	-	1	0	-	-
	Postnatal	0	0	-	-	1	1	4.00	0.25 - 64.0
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	3	0	-	2	3	3.15	0.43 - 23.4
	Prenatal	0	0	-	-	1	1	3.46	0.22 - 55.8
	Postnatal	0	2	0	-	2	2	6.00	0.52 - 69.5
Ever worked in cleaning or maintenance (7)	Total	0	3	0	-	3	3	5.04	0.82 - 31.0
	Prenatal	0	2	0	-	2	2	3.72	0.52 - 26.5
	Postnatal	0	1	0	-	3	3	5.04	0.82 - 31.0
Ever worked in the medical professions (8)	Total	2	6	1.60	0.31 - 8.25	0	3	0	-
	Prenatal	2	4	2.67	0.45 - 16.0	0	3	0	-
	Postnatal	2	4	2.67	0.45 - 16.0	0	3	0	-
Ever wore radiation badge (9)	Total	1	1	4.00	0.25 - 64.0	0	3	0	-
	Prenatal	1	1	4.00	0.25 - 64.0	0	2	0	-
	Postnatal	1	0	-	-	0	3	0	-

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Table 26b. Interview Study Analysis of IH Rating of Job Exposures and Activities: Leukemia

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia Diagnosis Ages 0 through 19									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	4	7	2.29	0.67 - 7.81	7	12	2.77	0.95 - 8.13
	Prenatal	4	6	2.67	0.75 - 9.45	3	8	1.57	0.36 - 6.79
	Postnatal	4	5	3.20	0.86 - 11.9	7	12	2.77	0.95 - 8.13
Ever exposed to paints or thinners (B)	Total	1	4	1.00	0.11 - 8.95	4	8	2.11	0.58 - 7.66
	Prenatal	1	4	1.00	0.11 - 8.95	0	4	0	-
	Postnatal	1	3	1.33	0.14 - 12.8	4	8	2.11	0.58 - 7.66
Ever exposed to dyes or pigments (C)	Total	3	5	2.40	0.57 - 10.0	1	0	-	-
	Prenatal	3	4	3.00	0.67 - 13.4	1	0	-	-
	Postnatal	3	3	4.00	0.81 - 19.8	1	0	-	-
Ever exposed to petroleum products (D)	Total	0	1	0	-	9	21	2.20	0.80 - 6.03
	Prenatal	0	0	-	-	8	14	2.83	1.03 - 7.81
	Postnatal	0	1	0	-	9	20	2.55	0.90 - 7.19

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	1	0	-	1	11	0.34	0.04 - 2.75
	Prenatal	0	0	-	-	1	6	0.62	0.07 - 5.44
	Postnatal	0	1	0	-	1	11	0.34	0.04 - 2.75
Ever exposed to plastics or resins (F)	Total	1	10	0.38	0.05 - 3.07	6	15	1.74	0.59 - 5.13
	Prenatal	0	7	0	-	5	10	2.12	0.62 - 7.22
	Postnatal	1	9	0.42	0.05 - 3.48	6	15	1.74	0.59 - 5.13
Ever exposed to metals (G)	Total	1	2	2.00	0.18 - 22.1	4	13	1.29	0.35 - 4.73
	Prenatal	0	2	0	-	2	10	0.84	0.16 - 4.46
	Postnatal	1	1	4.00	0.25 - 64.0	4	13	1.29	0.35 - 4.73
Ever exposed to radiation, ionizing or low frequency (H)	Total	6	13	1.87	0.61 - 5.70	8	22	1.70	0.63 - 4.59
	Prenatal	2	5	1.90	0.35 - 10.4	5	14	1.43	0.47 - 4.30
	Postnatal	6	12	2.52	0.77 - 8.19	8	21	1.91	0.70 - 5.23
Ever worked in painting, printing, dye coloring or graphics (1)	Total	5	10	2.13	0.69 - 6.64	4	11	1.49	0.44 - 5.08
	Prenatal	5	8	2.79	0.83 - 9.34	0	6	0	-
	Postnatal	5	7	3.31	0.94 - 11.7	4	10	1.67	0.48 - 5.87

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever did electrical or electronics work (2)	Total	6	15	1.87	0.61 - 5.70	10	21	2.62	0.98 - 7.01
	Prenatal	2	5	1.90	0.35 - 10.4	5	13	1.56	0.50 - 4.80
	Postnatal	6	12	2.52	0.77 - 8.19	10	20	3.04	1.10 - 8.37
Ever did metal working (3)	Total	1	0	-	-	3	11	1.10	0.23 - 5.24
	Prenatal	0	0	-	-	2	8	1.33	0.24 - 7.58
	Postnatal	1	0	-	-	3	10	1.25	0.27 - 5.77
Ever did motor vehicle work (4)	Total	0	1	0	-	5	17	1.20	0.39 - 3.66
	Prenatal	0	0	-	-	5	13	1.76	0.54 - 5.76
	Postnatal	0	1	0	-	5	16	1.42	0.44 - 4.53
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	2	2	4.00	0.56 - 28.4
	Prenatal	0	0	-	-	2	1	-	-
	Postnatal	0	0	-	-	2	2	4.00	0.56 - 28.4
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	1	0	-	1	9	0.43	0.05 - 3.50
	Prenatal	0	0	-	-	1	5	0.76	0.09 - 6.51
	Postnatal	0	1	0	-	1	9	0.43	0.05 - 3.50

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in cleaning or maintenance (7)	Total	1	5	0.79	0.08 - 7.28	2	5	1.67	0.30 - 9.39
	Prenatal	0	1	0	-	2	2	3.72	0.52 - 26.5
	Postnatal	1	5	0.79	0.08 - 7.28	2	5	1.67	0.30 - 9.39
Ever worked in the medical professions (8)	Total	0	11	0	-	0	2	0	-
	Prenatal	0	7	0	-	0	2	0	-
	Postnatal	0	9	0	-	0	2	0	-
Ever wore radiation badge (9)	Total	0	0	-	-	2	2	6.00	0.52 - 69.5
	Prenatal	0	0	-	-	1	1	4.00	0.25 - 64.0
	Postnatal	0	0	-	-	2	2	6.00	0.52 - 69.5
Leukemia Diagnosis Ages 0 through 4									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	1	5	0.80	0.09 - 6.85	2	6	1.44	0.23 - 9.04
	Prenatal	1	5	0.80	0.09 - 6.85	1	5	0.77	0.08 - 7.76
	Postnatal	1	3	1.33	0.14 - 12.8	2	6	1.44	0.23 - 9.04
Ever exposed to paints or thinners (B)	Total	1	4	1.00	0.11 - 8.95	1	3	1.40	0.12 - 16.4
	Prenatal	1	4	1.00	0.11 - 8.95	0	2	0	-
	Postnatal	1	3	1.33	0.14 - 12.8	1	3	1.40	0.12 - 16.4

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to dyes or pigments (C)	Total	1	4	1.00	0.11 - 8.95	0	0	-	-
	Prenatal	1	3	1.33	0.14 - 12.8	0	0	-	-
	Postnatal	1	2	2.00	0.18 - 22.1	0	0	-	-
Ever exposed to petroleum products (D)	Total	0	0	-	-	4	6	3.57	0.77 - 16.7
	Prenatal	0	0	-	-	4	5	3.93	0.84 - 18.4
	Postnatal	0	0	-	-	4	6	5.10	0.89 - 29.1
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	1	0	-	1	3	1.40	0.12 - 16.4
	Prenatal	0	0	-	-	1	1	3.46	0.22 - 55.8
	Postnatal	0	1	0	-	1	3	1.40	0.12 - 16.4
Ever exposed to plastics or resins (F)	Total	0	4	0	-	1	7	0.54	0.06 - 4.77
	Prenatal	0	4	0	-	1	7	0.52	0.06 - 4.55
	Postnatal	0	3	0	-	1	7	0.54	0.06 - 4.77
Ever exposed to metals (G)	Total	0	2	0	-	1	7	0.47	0.05 - 4.91
	Prenatal	0	2	0	-	1	6	0.61	0.06 - 6.04
	Postnatal	0	1	0	-	1	7	0.47	0.05 - 4.91

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to radiation, ionizing or low frequency (H)	Total	1	3	1.33	0.14 - 12.8	0	8	0	-
	Prenatal	1	2	2.00	0.18 - 22.1	0	6	0	-
	Postnatal	1	2	2.00	0.18 - 22.1	0	8	0	-
Ever worked in painting, printing, dye coloring or graphics (1)	Total	2	8	1.00	0.20 - 5.12	1	5	0.79	0.08 - 7.28
	Prenatal	2	7	1.16	0.22 - 6.23	0	4	0	-
	Postnatal	2	6	1.40	0.24 - 7.97	1	4	1.00	0.10 - 10.1
Ever did electrical or electronics work (2)	Total	1	3	1.33	0.14 - 12.8	1	7	0.54	0.06 - 4.77
	Prenatal	1	2	2.00	0.18 - 22.1	1	6	0.63	0.07 - 5.89
	Postnatal	1	2	2.00	0.18 - 22.1	1	7	0.63	0.07 - 5.89
Ever did metal working (3)	Total	0	0	-	-	1	5	0.75	0.07 - 8.54
	Prenatal	0	0	-	-	1	4	1.00	0.10 - 10.1
	Postnatal	0	0	-	-	1	5	0.75	0.07 - 8.54
Ever did motor vehicle work (4)	Total	0	0	-	-	2	6	1.40	0.24 - 7.97
	Prenatal	0	0	-	-	2	5	1.62	0.25 - 10.5
	Postnatal	0	0	-	-	2	6	1.77	0.28 - 11.1

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	0	1	0	-
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	0	1	0	-
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	1	0	-	1	2	2.45	0.14 - 42.6
	Prenatal	0	0	-	-	1	1	3.46	0.22 - 55.8
	Postnatal	0	1	0	-	1	2	2.45	0.14 - 42.6
Ever worked in cleaning or maintenance (7)	Total	0	1	0	-	2	2	6.00	0.52 - 69.5
	Prenatal	0	0	-	-	2	1	7.29	0.66 - 80.8
	Postnatal	0	1	0	-	2	2	6.00	0.52 - 69.5
Ever worked in the medical professions (8)	Total	0	4	0	-	0	1	0	-
	Prenatal	0	3	0	-	0	1	0	-
	Postnatal	0	2	0	-	0	1	0	-
Ever wore radiation badge (9)	Total	0	0	-	-	0	1	0	-
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	0	1	0	-

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Table 26c. Interview Study Analysis of IH Rating of Job Exposures and Activities: Nervous System Cancers

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Nervous System Cancer Diagnosis Ages 0 through 19									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	0	9	0	-	3	21	0.48	0.12 - 1.87
	Prenatal	0	3	0	-	2	18	0.34	0.07 - 1.70
	Postnatal	0	6	0	-	3	18	0.59	0.15 - 2.34
Ever exposed to paints or thinners (B)	Total	0	8	0	-	3	14	0.83	0.21 - 3.24
	Prenatal	0	2	0	-	2	10	0.71	0.13 - 3.82
	Postnatal	0	5	0	-	2	12	0.62	0.12 - 3.10
Ever exposed to dyes or pigments (C)	Total	0	5	0	-	2	1	8.00	0.73 - 88.2
	Prenatal	0	1	0	-	2	1	8.00	0.73 - 88.2
	Postnatal	0	2	0	-	2	1	8.00	0.73 - 88.2
Ever exposed to petroleum products (D)	Total	0	0	-	-	7	26	1.11	0.40 - 3.11
	Prenatal	0	0	-	-	3	22	0.45	0.12 - 1.66
	Postnatal	0	0	-	-	7	22	1.43	0.50 - 4.12

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	3	0	-	1	4	1.00	0.11 - 8.95
	Prenatal	0	1	0	-	1	2	2.00	0.18 - 22.1
	Postnatal	0	1	0	-	1	3	1.33	0.14 - 12.8
Ever exposed to plastics or resins (F)	Total	2	10	0.78	0.16 - 3.87	7	19	1.72	0.59 - 5.02
	Prenatal	2	5	1.60	0.31 - 8.25	6	15	1.74	0.58 - 5.27
	Postnatal	2	9	0.88	0.18 - 4.36	6	18	1.46	0.48 - 4.42
Ever exposed to metals (G)	Total	0	4	0	-	4	17	0.90	0.26 - 3.19
	Prenatal	0	1	0	-	3	12	0.95	0.24 - 3.79
	Postnatal	0	3	0	-	4	17	0.90	0.26 - 3.19
Ever exposed to radiation, ionizing or low frequency (H)	Total	5	11	3.41	0.73 - 15.9	2	16	0.40	0.08 - 2.01
	Prenatal	1	5	0.65	0.03 - 12.4	1	11	0.30	0.03 - 2.55
	Postnatal	5	9	5.12	0.91 - 28.7	2	15	0.44	0.09 - 2.21
Ever worked in painting, printing, dye coloring or graphics (1)	Total	0	13	0	-	1	19	0.16	0.02 - 1.31
	Prenatal	0	5	0	-	1	14	0.24	0.03 - 1.95
	Postnatal	0	9	0	-	0	17	0	-

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever did electrical or electronics work (2)	Total	5	12	2.51	0.62 - 10.1	2	18	0.34	0.07 - 1.67
	Prenatal	0	6	0	-	1	9	0.39	0.05 - 3.25
	Postnatal	5	9	3.91	0.88 - 17.4	2	17	0.36	0.07 - 1.82
Ever did metal working (3)	Total	0	0	-	-	3	11	1.09	0.25 - 4.76
	Prenatal	0	0	-	-	2	8	0.93	0.17 - 4.97
	Postnatal	0	0	-	-	3	11	1.09	0.25 - 4.76
Ever did motor vehicle work (4)	Total	0	1	0	-	3	23	0.44	0.12 - 1.64
	Prenatal	0	0	-	-	1	19	0.17	0.02 - 1.33
	Postnatal	0	1	0	-	3	19	0.57	0.15 - 2.13
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	2	1	8.00	0.73 - 88.2
	Prenatal	0	0	-	-	2	1	8.00	0.73 - 88.2
	Postnatal	0	0	-	-	2	1	8.00	0.73 - 88.2
Ever worked agriculture, yard maintenance or pest control (6)	Total	0	2	0	-	1	3	1.33	0.14 - 12.8
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	1	0	-	1	2	2.00	0.18 - 22.1

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in cleaning or maintenance (7)	Total	0	4	0	-	2	5	1.85	0.28 - 12.4
	Prenatal	0	2	0	-	1	3	1.63	0.08 - 34.6
	Postnatal	0	2	0	-	2	5	1.85	0.28 - 12.4
Ever worked in the medical professions (8)	Total	3	10	1.45	0.32 - 6.55	0	2	0	-
	Prenatal	3	6	2.90	0.56 - 15.0	0	2	0	-
	Postnatal	3	9	1.62	0.37 - 7.06	0	2	0	-
Ever wore radiation badge (9)	Total	1	1	4.00	0.25 - 64.0	0	3	0	-
	Prenatal	1	1	4.00	0.25 - 64.0	0	3	0	-
	Postnatal	1	0	-	-	0	3	0	-
Nervous System Cancer Diagnosis Ages 0 through 4									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	0	2	0	-	1	10	0.33	0.04 - 2.96
	Prenatal	0	0	-	-	1	8	0.47	0.05 - 4.02
	Postnatal	0	1	0	-	1	9	0.40	0.05 - 3.45
Ever exposed to paints or thinners (B)	Total	0	4	0	-	2	6	1.40	0.24 - 7.97
	Prenatal	0	0	-	-	1	4	1.00	0.10 - 10.1
	Postnatal	0	2	0	-	1	5	0.77	0.08 - 7.76

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to dyes or pigments (C)	Total	0	1	0	-	1	1	4.00	0.25 - 64.0
	Prenatal	0	0	-	-	1	1	4.00	0.25 - 64.0
	Postnatal	0	0	-	-	1	1	4.00	0.25 - 64.0
Ever exposed to petroleum products (D)	Total	0	0	-	-	4	15	1.11	0.26 - 4.73
	Prenatal	0	0	-	-	2	14	0.47	0.09 - 2.47
	Postnatal	0	0	-	-	4	14	1.24	0.29 - 5.24
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	2	0	-	0	2	0	-
	Prenatal	0	0	-	-	0	1	0	-
	Postnatal	0	1	0	-	0	1	0	-
Ever exposed to plastics or resins (F)	Total	1	1	4.00	0.25 - 64.0	3	10	1.23	0.28 - 5.50
	Prenatal	1	0	-	-	3	9	1.38	0.32 - 5.98
	Postnatal	1	1	4.00	0.25 - 64.0	2	10	0.73	0.13 - 3.98
Ever exposed to metals (G)	Total	0	0	-	-	1	8	0.41	0.04 - 3.87
	Prenatal	0	0	-	-	1	7	0.52	0.06 - 4.55
	Postnatal	0	0	-	-	1	8	0.41	0.04 - 3.87

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to radiation, ionizing or low frequency (H)	Total	2	6	2.31	0.25 - 21.1	1	10	0.28	0.03 - 2.66
	Prenatal	1	5	0.65	0.03 - 12.4	0	9	0	-
	Postnatal	2	4	5.06	0.40 - 64.0	1	9	0.32	0.03 - 3.14
Ever worked in painting, printing, dye coloring or graphics (1)	Total	0	6	0	-	1	10	0.33	0.04 - 2.96
	Prenatal	0	2	0	-	1	8	0.47	0.05 - 4.02
	Postnatal	0	4	0	-	0	9	0	-
Ever did electrical or electronics work (2)	Total	1	6	0.75	0.07 - 8.54	1	8	0.40	0.04 - 3.82
	Prenatal	0	5	0	-	0	7	0	-
	Postnatal	1	4	1.40	0.12 - 16.4	1	7	0.47	0.05 - 4.67
Ever did metal working (3)	Total	0	0	-	-	0	4	0	-
	Prenatal	0	0	-	-	0	4	0	-
	Postnatal	0	0	-	-	0	4	0	-
Ever did motor vehicle work (4)	Total	0	0	-	-	1	13	0.22	0.03 - 1.96
	Prenatal	0	0	-	-	0	12	0	-
	Postnatal	0	0	-	-	1	11	0.28	0.03 - 2.52

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	1	0	-	-
	Prenatal	0	0	-	-	1	0	-	-
	Postnatal	0	0	-	-	1	0	-	-
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	2	0	-	1	1	4.00	0.25 - 64.0
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	1	0	-	1	0	-	-
Ever worked in cleaning or maintenance (7)	Total	0	2	0	-	1	1	4.00	0.25 - 64.0
	Prenatal	0	2	0	-	0	1	0	-
	Postnatal	0	0	-	-	1	1	4.00	0.25 - 64.0
Ever worked in the medical professions (8)	Total	2	2	8.00	0.73 - 88.2	0	2	0	-
	Prenatal	2	1	-	-	0	2	0	-
	Postnatal	2	2	8.00	0.73 - 88.2	0	2	0	-
Ever wore radiation badge (9)	Total	1	1	4.00	0.25 - 64.0	0	2	0	-
	Prenatal	1	1	4.00	0.25 - 64.0	0	2	0	-
	Postnatal	1	0	-	-	0	2	0	-

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Table 26d. Interview Study Analysis of IH Rating of Job Exposures and Activities: Brain and Central Nervous System Cancers

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	0	8	0	-	2	17	0.36	0.07 - 1.88
	Prenatal	0	3	0	-	1	14	0.18	0.02 - 1.69
	Postnatal	0	5	0	-	2	14	0.46	0.08 - 2.54
Ever exposed to paints or thinners (B)	Total	0	5	0	-	3	10	1.26	0.29 - 5.39
	Prenatal	0	2	0	-	2	8	0.92	0.15 - 5.57
	Postnatal	0	3	0	-	2	9	0.87	0.16 - 4.66
Ever exposed to dyes or pigments (C)	Total	0	5	0	-	1	1	4.00	0.25 - 64.0
	Prenatal	0	1	0	-	1	1	4.00	0.25 - 64.0
	Postnatal	0	2	0	-	1	1	4.00	0.25 - 64.0
Ever exposed to petroleum products (D)	Total	0	0	-	-	5	19	1.08	0.33 - 3.50
	Prenatal	0	0	-	-	1	15	0.21	0.03 - 1.72
	Postnatal	0	0	-	-	5	15	1.49	0.44 - 5.09

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	1	0	-	1	2	2.00	0.18 - 22.1
	Prenatal	0	1	0	-	1	1	4.00	0.25 - 64.0
	Postnatal	0	0	-	-	1	2	2.00	0.18 - 22.1
Ever exposed to plastics or resins (F)	Total	2	10	0.78	0.16 - 3.87	5	12	2.11	0.57 - 7.85
	Prenatal	2	5	1.60	0.31 - 8.25	4	9	2.01	0.50 - 8.07
	Postnatal	2	9	0.88	0.18 - 4.36	4	11	1.67	0.42 - 6.60
Ever exposed to metals (G)	Total	0	4	0	-	3	12	1.00	0.23 - 4.38
	Prenatal	0	1	0	-	2	8	0.96	0.17 - 5.41
	Postnatal	0	3	0	-	3	12	1.00	0.23 - 4.38
Ever exposed to radiation, ionizing or low frequency (H)	Total	4	6	8.64	0.90 - 83.0	2	8	1.00	0.17 - 5.98
	Prenatal	0	0	-	-	1	3	1.33	0.14 - 12.8
	Postnatal	4	6	8.64	0.90 - 83.0	2	8	1.00	0.17 - 5.98
Ever worked in painting, printing, dye coloring or graphics (1)	Total	0	10	0	-	1	13	0.26	0.03 - 2.16
	Prenatal	0	5	0	-	1	10	0.33	0.04 - 2.92
	Postnatal	0	7	0	-	0	12	0	-

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever did electrical or electronics work (2)	Total	5	7	10.3	1.14 - 93.4	2	12	0.54	0.09 - 3.17
	Prenatal	0	1	0	-	1	3	1.24	0.13 - 11.9
	Postnatal	5	6	12.4	1.37 - 111	2	12	0.54	0.09 - 3.17
Ever did metal working (3)	Total	0	0	-	-	3	7	2.36	0.41 - 13.6
	Prenatal	0	0	-	-	2	4	2.46	0.31 - 19.7
	Postnatal	0	0	-	-	3	7	2.36	0.41 - 13.6
Ever did motor vehicle work (4)	Total	0	1	0	-	3	18	0.59	0.15 - 2.31
	Prenatal	0	0	-	-	1	14	0.23	0.03 - 1.88
	Postnatal	0	1	0	-	3	15	0.76	0.19 - 2.99
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	1	1	4.00	0.25 - 64.0
	Prenatal	0	0	-	-	1	1	4.00	0.25 - 64.0
	Postnatal	0	0	-	-	1	1	4.00	0.25 - 64.0
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	0	-	-	1	2	2.00	0.18 - 22.1
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	1	2	2.00	0.18 - 22.1

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in cleaning or maintenance (7)	Total	0	3	0	-	2	4	2.67	0.33 - 21.5
	Prenatal	0	1	0	-	1	2	-	-
	Postnatal	0	2	0	-	2	4	2.67	0.33 - 21.5
Ever worked in the medical professions (8)	Total	2	10	0.86	0.15 - 4.82	0	1	0	-
	Prenatal	2	6	1.77	0.28 - 11.1	0	1	0	-
	Postnatal	2	9	1.00	0.19 - 5.37	0	1	0	-
Ever wore radiation badge (9)	Total	0	0	-	-	0	2	0	-
	Prenatal	0	0	-	-	0	2	0	-
	Postnatal	0	0	-	-	0	2	0	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Ever exposed to solvents, dry cleaning agents or degreasers (A)	Total	0	1	0	-	0	6	0	-
	Prenatal	0	0	-	-	0	4	0	-
	Postnatal	0	0	-	-	0	5	0	-
Ever exposed to paints or thinners (B)	Total	0	1	0	-	2	2	6.00	0.52 - 69.5
	Prenatal	0	0	-	-	1	2	2.45	0.14 - 42.6
	Postnatal	0	0	-	-	1	2	2.45	0.14 - 42.6

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to dyes or pigments (C)	Total	0	1	0	-	0	1	0	-
	Prenatal	0	0	-	-	0	1	0	-
	Postnatal	0	0	-	-	0	1	0	-
Ever exposed to petroleum products (D)	Total	0	0	-	-	2	8	1.00	0.14 - 7.39
	Prenatal	0	0	-	-	0	7	0	-
	Postnatal	0	0	-	-	2	7	1.23	0.17 - 8.99
Ever exposed to pesticides, herbicides or fungicides (E)	Total	0	0	-	-	0	0	-	-
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	0	0	-	-
Ever exposed to plastics or resins (F)	Total	1	1	4.00	0.25 - 64.0	1	3	1.40	0.12 - 16.4
	Prenatal	0	0	-	-	1	3	1.40	0.12 - 16.4
	Postnatal	1	1	4.00	0.25 - 64.0	0	3	0	-
Ever exposed to metals (G)	Total	0	0	-	-	0	3	0	-
	Prenatal	0	0	-	-	0	3	0	-
	Postnatal	0	0	-	-	0	3	0	-

Table 26: page 26 of 28

IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever exposed to radiation, ionizing or low frequency (H)	Total	1	1	-	-	1	2	0	-
	Prenatal	0	0	-	-	0	1	0	-
	Postnatal	1	1	-	-	1	2	-	-
Ever worked in painting, printing, dye coloring or graphics (1)	Total	0	3	0	-	1	4	1.00	0.10 - 10.1
	Prenatal	0	2	0	-	1	4	1.00	0.10 - 10.1
	Postnatal	0	2	0	-	0	4	0	-
Ever did electrical or electronics work (2)	Total	1	1	0	-	1	2	-	-
	Prenatal	0	0	-	-	0	1	0	-
	Postnatal	1	1	-	-	1	2	0	-
Ever did metal working (3)	Total	0	0	-	-	0	0	-	-
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	0	0	-	-
Ever did motor vehicle work (4)	Total	0	0	-	-	1	8	0.37	0.04 - 3.89
	Prenatal	0	0	-	-	0	7	0	-
	Postnatal	0	0	-	-	1	7	0.47	0.05 - 4.91

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IH Rating Group	Time Period	Mother				Father			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Ever worked in chemical manufacturing (5)	Total	0	0	-	-	0	0	-	-
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	0	0	-	-
Ever worked in agriculture, yard maintenance or pest control (6)	Total	0	0	-	-	1	0	-	-
	Prenatal	0	0	-	-	0	0	-	-
	Postnatal	0	0	-	-	1	0	-	-
Ever worked in cleaning or maintenance (7)	Total	0	1	0	-	1	0	-	-
	Prenatal	0	1	0	-	0	0	-	-
	Postnatal	0	0	-	-	1	0	-	-
Ever worked in the medical professions (8)	Total	1	2	4.00	0.25 - 64.0	0	1	0	-
	Prenatal	1	1	-	-	0	1	0	-
	Postnatal	1	2	4.00	0.25 - 64.0	0	1	0	-
Ever wore radiation badge (9)	Total	0	0	-	-	0	1	0	-
	Prenatal	0	0	-	-	0	1	0	-
	Postnatal	0	0	-	-	0	1	0	-

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Table 27. Interview Study Demographic, Pregnancy, and Birth Characteristics

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Sex of child:				
Female	20	50.0	80	50.3
Male	20	50.0	79	49.7
Race of child:				
White	40	100	154	96.9
Non-white	0	0	5	3.1
Hispanic origin of child:				
Yes	1	2.5	3	1.9
No	39	97.5	155	97.5
Unknown	0	0	1	0.6
Plurality of child:				
Singleton	38	95.0	152	95.6
Twin	1	2.5	5	3.1
Unknown	1	2.5	2	1.3
Mother's residence in Dover Township during pregnancy with study subject:				
Entire pregnancy	21	52.5	70	44.0
Part of pregnancy	4	10.0	12	7.5
None of pregnancy	15	37.5	75	47.2
Unknown	0	0.0	2	1.3
Length of child's residence in Dover Township from birth to end of relevant period:				
< 1 year	7	17.5	20	12.6
1 - 5 years	16	40.0	61	38.4
> 5 - 10 years	11	27.5	52	32.7
> 10 - 15 years	3	7.5	17	10.7
> 15 years	3	7.5	9	5.7

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Percent of child's life lived in Dover Township from birth to end of relevant period:				
100%	23	57.5	79	49.7
50% - < 100%	4	10.0	46	28.9
< 50%	13	32.5	34	21.4
Average number of months in study (entire relevant time period)	109.1		109.8	
Number of maternal residences during the child's prenatal period:				
1	31	77.5	123	77.4
2+	9	22.5	36	22.6
Number of residences of child from birth to end of relevant period:				
1	17	42.5	56	35.2
2 - 3	12	30.0	78	49.1
4+	11	27.5	25	15.7
Number of day care, camp, and/or school locations child attended:				
None	8	20.0	51	32.1
1 - 2	14	35.0	46	28.9
3+	17	42.5	62	39.0
Unknown	1	2.5	0	0
Year of birth of child:				
1963 - 69	6	15.0	20	12.6
1970 - 74	4	10.0	21	13.2
1975 - 79	7	17.5	32	20.1
1980 - 84	14	35.0	50	31.1
1985 - 89	5	12.5	21	13.2
1990 - 96	4	10.0	15	9.4

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Age of child at end of relevant period:				
0 - 4	18	45.0	65	40.9
5 - 9	8	20.0	38	23.9
10 - 14	6	15.0	28	17.6
15+	8	20.0	28	17.6
Year at end of child's relevant period:				
1979 - 82	7	17.5	27	17.0
1983 - 86	9	22.5	36	22.6
1987 - 90	12	30.0	48	30.2
1991 - 94	6	15.0	24	15.1
1995 - 96	6	15.0	24	15.1
Mother's age at child's birth:				
<20 years	2	5.0	11	6.9
20 - 34 years	35	87.5	128	80.5
>34 years	2	5.0	19	12.0
Unknown	1	2.5	1	0.6
Mother's educational level:				
< High school	2	5.0	10	6.3
High school	23	57.5	105	66.0
Some college	3	7.5	10	6.3
College graduate	10	25.0	23	14.5
Post-graduate	0	0	6	3.8
Unknown	2	5.0	5	3.1
Father's educational level:				
< High school	2	5.0	13	8.2
High school	24	60.0	77	48.4
Some college	3	7.5	13	8.2
College graduate	7	17.5	34	21.4
Post-graduate	2	5.0	17	10.7
Unknown	2	5.0	5	3.1
Mother's pregnancies prior to child's birth:				
0	12	30.0	54	34.0
1	9	22.5	45	28.3
2+	17	42.5	58	36.5
Unknown	2	5.0	2	1.3

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth:				
Yes	6	15.0	27	17.0
No	32	80.0	130	81.8
Unknown	2	5.0	2	1.3
Any pregnancy termination of mother prior to child's birth:				
Yes	5	12.5	16	10.1
No	33	82.5	141	88.7
Unknown	2	5.0	2	1.3
Total number of pregnancies of mother:				
1	3	7.5	6	3.8
2-3	17	42.5	89	56.0
4+	18	45.0	62	39.0
Unknown	2	5.0	2	1.3
Total live births of mother:				
1	4	10.0	11	6.9
2-3	23	57.5	115	72.3
4+	11	27.5	31	19.5
Unknown	2	5.0	2	1.3
Total adverse pregnancy outcomes (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother:				
Yes	11	27.5	42	26.4
No	27	67.5	115	72.3
Unknown	2	5.0	2	1.3
Pregnancy duration of child:				
< 37 weeks	2	5.0	21	13.2
37 - 44 weeks	36	90.0	137	86.9
Unknown	2	5.0	1	0.6

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Delivery method of child:				
Vaginal	31	77.5	130	81.8
C-section	8	20.0	29	18.2
Unknown	1	2.5	0	0
Child was first live birth of mother:				
Yes	14	35.0	65	40.9
No	24	60.0	91	57.2
Unknown	2	5.0	3	1.9
Child's birth weight:				
< 2500 grams	2	5.0	12	7.6
2500 - 3999 grams	31	77.5	128	80.5
> 3999 grams	6	15.0	19	11.9
Unknown	1	2.5	0	0.0

Table 28a. Interview Study Analysis of Demographic, Pregnancy, and Birth Characteristics: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Mother's age at child's birth	20-34 years	35	128	1.0	-
	< 20 years	2	11	0.65	0.14 - 3.04
	35+ years	2	19	0.34	0.07 - 1.63
Mother's educational level	High School	26	115	1.0	-
	< High School	2	10	0.81	0.16 - 4.04
	College+	10	29	1.51	0.65 - 3.47
Father's educational level	High School	27	90	1.0	-
	< High School	2	13	0.51	0.11 - 2.39
	College+	9	51	0.57	0.24 - 1.35
Child was mother's first live birth	No	24	91	1.0	-
	Yes	14	65	0.78	0.37 - 1.66
Child's birth weight	2500-3999gm	31	128	1.0	-
	< 2500 grams	2	12	0.66	0.14 - 3.17
	4000+ grams	6	19	1.39	0.48 - 4.04
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	32	130	1.0	-
	Yes	6	27	0.93	0.33 - 2.65

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	27	126	1.0	-
	Yes	11	31	1.62	0.73 - 3.61
Any pregnancy termination of mother prior to child's birth	No	33	141	1.0	-
	Yes	5	16	1.31	0.43 - 3.98
Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Mother's age at child's birth	20-34 years	14	58	1.0	-
	<20 years	1	2	1.85	0.16 - 21.7
	35+ years	2	10	0.79	0.14 - 4.49
Mother's educational level	High School	9	51	1.0	-
	< High School	1	3	1.84	0.14 - 24.0
	College+	7	16	2.60	0.82 - 8.20
Father's educational level	High School	13	45	1.0	-
	< High School	0	2	0	-
	College+	5	23	0.71	0.21 - 2.38
Child was mother's first live birth	No	12	37	1.0	-
	Yes	5	33	0.49	0.16 - 1.53
Child's birth weight	2500-3999gm	12	56	1.0	-
	<2500 grams	1	4	1.12	0.11 - 11.7
	4000+ grams	4	11	1.83	0.46 - 7.31
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	15	53	1.0	-
	Yes	2	17	0.44	0.10 - 2.07

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	11	61	1.0	-
	Yes	6	9	3.63	1.08 - 12.2
Any pregnancy termination of mother prior to child's birth	No	15	60	1.0	-
	Yes	2	10	0.79	0.17 - 3.72

Table 28b. Interview Study Analysis of Demographic, Pregnancy, and Birth Characteristics: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Mother's age at child's birth	20-34 years	20	71	1.0	-
	< 20 years	2	5	1.47	0.28 - 7.59
	35+ years	0	11	0	-
Mother's educational level	High School	15	60	1.0	-
	< High School	2	7	0.99	0.17 - 5.63
	College+	4	17	0.87	0.26 - 2.90
Father's educational level	High School	17	41	1.0	-
	< High School	0	9	0	-
	College+	3	34	0.20	0.05 - 0.76
Child was maternal first live birth	No	13	49	1.0	-
	Yes	8	37	0.73	0.26 - 2.05
Child's birth weight	2500-3999gm	17	67	1.0	-
	< 2500 grams	1	9	0.42	0.05 - 3.61
	4000+ grams	4	12	1.36	0.37 - 4.94
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	18	74	1.0	-
	Yes	3	13	1.00	0.26 - 3.89

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	14	72	1.0	-
	Yes	7	15	2.13	0.77 - 5.93
Any pregnancy termination of mother prior to child's birth	No	17	77	1.0	-
	Yes	4	10	1.93	0.47 - 7.86
Leukemia Diagnosis Ages 0 through 4					
Mother's age at child's birth	20-34 years	8	24	1.0	-
	<20 years	1	1	3.46	0.22 - 55.8
	35+ years	0	6	0	-
Mother's educational level	High School	6	25	1.0	-
	<High School	1	2	2.04	0.10 - 41.8
	College+	2	8	1.06	0.18 - 6.36
Father's educational level	High School	7	19	1.0	-
	<High School	0	1	0	-
	College+	2	15	0.34	0.06 - 2.01
Child was mother's first live birth	No	6	16	1.0	-
	Yes	3	19	0.43	0.09 - 2.01
Child's birth weight	2500-3999gm	6	26	1.0	-
	<2500 grams	0	4	0	-
	4000+ grams	3	6	2.75	0.41 - 18.4
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	9	25	1.0	-
	Yes	0	10	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	5	30	1.0	-
	Yes	4	5	3.94	0.85 - 18.2
Any pregnancy termination of mother prior to child's birth	No	7	29	1.0	-
	Yes	2	6	1.36	0.26 - 7.20

Table 28c. Interview Study Analysis of Demographic, Pregnancy, and Birth Characteristics: Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Mother's age at child's birth	20-34 years	15	57	1.0	-
	<20 years	0	6	0	-
	35+ years	2	8	0.85	0.14 - 5.15
Mother's educational level	High School	11	55	1.0	-
	<High School	0	3	0	-
	College+	6	12	3.03	0.88 - 10.5
Father's educational level	High School	10	49	1.0	-
	<High School	2	4	2.26	0.40 - 12.7
	College+	6	17	1.72	0.50 - 5.86
Child's was mother's first live birth	No	11	42	1.0	-
	Yes	6	28	0.85	0.28 - 2.52
Child's birth weight	2500-3999gm	14	61	1.0	-
	<2500 grams	1	3	1.37	0.14 - 13.2
	4000+ grams	2	7	1.43	0.21 - 9.57
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	14	56	1.0	-
	Yes	3	14	0.85	0.16 - 4.33

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	13	54	1.0	-
	Yes	4	16	1.07	0.29 - 3.97
Any pregnancy termination of mother prior to child's birth	No	16	64	1.0	-
	Yes	1	6	0.67	0.08 - 5.54
Nervous System Cancer Diagnosis Ages 0 through 4					
Mother's age at child's birth	20-34 years	6	30	1.0	-
	<20 years	0	1	0	-
	35+ years	2	4	2.20	0.25 - 19.2
Mother's educational level	High School	3	26	1.0	-
	<High School	0	1	0	-
	College+	5	8	5.89	1.07 - 32.4
Father's educational level	High School	6	26	1.0	-
	<High School	0	1	0	-
	College+	3	8	1.59	0.29 - 8.73
Child was mother's first live birth	No	6	21	1.0	-
	Yes	2	14	0.57	0.11 - 3.06
Child's birth weight	2500-3999gm	6	30	1.0	-
	<2500 grams	1	0	-	-
	4000+ grams	1	5	1.28	0.11 - 14.8
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	6	28	1.0	-
	Yes	2	7	1.37	0.22 - 8.49

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	6	31	1.0	-
	Yes	2	4	3.15	0.43 - 23.4
Any pregnancy termination of mother prior to child's birth	No	8	31	1.0	-
	Yes	0	4	0	-

Table 28d. Interview Study Analysis of Demographic, Pregnancy, and Birth Characteristics: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Mother's age at child's birth	20-34 years	12	39	1.0	-
	< 20 years	0	6	0	-
	35+ years	0	7	0	-
Mother's educational level	High School	9	42	1.0	-
	< High School	0	3	0	-
	College+	3	6	3.26	0.64 - 16.5
Father's educational level	High School	7	36	1.0	-
	< High School	2	4	2.33	0.41 - 13.4
	College+	4	11	1.94	0.43 - 8.71
Child was mother's first live birth	No	7	31	1.0	-
	Yes	5	20	1.14	0.31 - 4.19
Child's birth weight	2500-3999gm	10	45	1.0	-
	< 2500 grams	1	3	1.39	0.14 - 13.6
	4000+ grams	1	4	1.71	0.08 - 38.2
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	10	41	1.0	-
	Yes	2	10	0.79	0.08 - 7.28

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	10	35	1.0	-
	Yes	2	16	0.40	0.07 - 2.22
Any pregnancy termination of mother prior to child's birth	No	11	48	1.0	-
	Yes	1	3	1.33	0.14 - 12.8
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Mother's age at child's birth	20-34 years	3	12	1.0	-
	<20 years	0	1	0	-
	35+ years	0	3	0	-
Mother's educational level	High School	1	13	1.0	-
	<High School	0	1	0	-
	College+	2	2	0	-
Father's educational level	High School	3	13	1.0	-
	<High School	0	1	0	-
	College+	1	2	2.12	0.13 - 35.4
Child was mother's first live birth	No	2	10	1.0	-
	Yes	1	6	1.00	0.07 - 13.7
Child's birth weight	2500-3999gm	2	14	1.0	-
	<2500 grams	1	0	-	-
	4000+ grams	0	2	0	-
Adverse pregnancy outcome (stillbirths; miscarriages; tubal, ectopic, or molar pregnancies) of mother prior to child's birth	No	2	13	1.0	-
	Yes	1	3	2.45	0.14 - 42.6

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's total live births equal to 4 or more	No	3	12	1.0	-
	Yes	0	4	0	-
Any pregnancy termination of mother prior to child's birth	No	3	15	1.0	-
	Yes	0	1	0	-

Table 29. Interview Study Family Medical History

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Self reported inherited health problem or birth defect in child:				
Yes	1	2.5	4	2.5
No	37	92.5	153	96.2
Unknown	2	5.0	2	1.3
Reported problem in child appears to be a definite birth defect:				
Yes	0	0.0	1	0.6
No	38	95.0	156	98.1
Unknown	2	5.0	2	1.3
Self reported inherited health problem or birth defect in any of child's siblings:				
Yes	2	5.0	9	5.7
No	36	90.0	148	93.1
Unknown	2	5.0	2	1.3
Reported problem in any of child's siblings appears to be a definite birth defect:				
Yes	2	5.0	6	3.8
No	36	90.0	151	95.0
Unknown	2	5.0	2	1.3
Family* history of any type of cancer:				
Yes	26	65.0	108	67.9
No	11	27.5	47	29.6
Unknown	3	7.5	4	2.5
Family* history of leukemia:				
Yes	2	5.0	2	1.3
No	36	90.0	155	97.5
Unknown	2	5.0	2	1.3

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Family* history of brain tumors:				
Yes	0	0.0	4	2.5
No	38	95.0	153	96.2
Unknown	2	5.0	2	1.3
History of any cancer in grandparents:				
Yes	26	65.0	108	67.9
No	12	30.0	49	30.8
Unknown	2	5.0	2	1.3
History of any cancer in parents:				
Yes	4	10.0	8	5.0
No	34	85.0	149	93.7
Unknown	2	5.0	2	1.3
History of any cancer in siblings:				
Yes	0	0.0	0	0.0
No	38	95.0	157	98.7
Unknown	2	5.0	2	1.3

* Family history includes subject's biological grandparents, parents and siblings.

Table 30a. Interview Study Analysis of Family Medical History: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Self reported inherited health problem or birth defect in child	No	37	153	1.0	-
	Yes	1	4	1.00	0.10 - 10.1
Reported problem in child appears to be a definite birth defect	No	38	156	1.0	-
	Yes	0	1	0	-
Self reported inherited health problem or birth defect in any of child's siblings	No	36	148	1.0	-
	Yes	2	9	0.86	0.18 - 4.11
Reported problem in any of child's siblings appears to be a definite birth defect	No	36	151	1.0	-
	Yes	2	6	1.36	0.26 - 7.20
Family history of any type of cancer	No	11	47	1.0	-
	Yes	26	108	0.97	0.44 - 2.17
Family history of leukemia	No	36	155	1.0	-
	Yes	2	2	4.00	0.56 - 28.4
Family history of brain tumors	No	38	153	1.0	-
	Yes	0	4	0	-
History of any cancer in grandparents	No	12	49	1.0	-
	Yes	26	108	0.95	0.44 - 2.03
History of any cancer in parents	No	34	149	1.0	-
	Yes	4	8	2.11	0.58 - 7.66

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	38	157	1.0	-
	Yes	0	0	-	-
Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Self reported inherited health problem or birth defect in child	No	16	68	1.0	-
	Yes	1	2	2.45	0.14 - 42.6
Reported problem in child appears to be a definite birth defect	No	17	70	1.0	-
	Yes	0	0	-	-
Self reported inherited health problem or birth defect in any of child's siblings	No	16	67	1.0	-
	Yes	1	3	1.33	0.14 - 12.8
Reported problem in any of child's siblings appears to be a definite birth defect	No	16	68	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Family history of any type of cancer	No	4	23	1.0	-
	Yes	12	46	1.41	0.39 - 5.01
Family history of leukemia	No	17	69	1.0	-
	Yes	0	1	0	-
Family history of brain tumors	No	17	68	1.0	-
	Yes	0	2	0	-
History of any cancer in grandparents	No	5	24	1.0	-
	Yes	12	46	1.17	0.37 - 3.70
History of any cancer in parents	No	15	68	1.0	-
	Yes	2	2	3.72	0.52 - 26.5

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	17	70	1.0	-
	Yes	0	0	-	-

Table 30b. Interview Study Analysis of Family Medical History: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Self reported inherited health problem or birth defect in child	No	20	84	1.0	-
	Yes	1	3	1.40	0.12 - 16.4
Reported problem in child appears to be a definite birth defect	No	21	86	1.0	-
	Yes	0	1	0	-
Self reported inherited health problem or birth defect in any of child's siblings	No	19	83	1.0	-
	Yes	2	4	2.17	0.35 - 13.5
Reported problem in any of child's siblings appears to be a definite birth defect	No	19	83	1.0	-
	Yes	2	4	2.17	0.35 - 13.5
Family history of any type of cancer	No	7	24	1.0	-
	Yes	13	62	0.73	0.27 - 2.00
Family history of leukemia	No	20	86	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Family history of brain tumors	No	21	87	1.0	-
	Yes	0	0	-	-
History of any cancer in grandparents	No	8	25	1.0	-
	Yes	13	62	0.69	0.26 - 1.77
History of any cancer in parents	No	19	80	1.0	-
	Yes	2	7	0.73	0.27 - 2.00

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	21	87	1.0	-
	Yes	0	0	-	-
Leukemia Diagnosis Ages 0 through 4					
Self reported inherited health problem or birth defect in child	No	8	33	1.0	-
	Yes	1	2	2.45	0.14 - 42.6
Reported problem in child appears to be a definite birth defect	No	9	35	1.0	-
	Yes	0	0	-	-
Self reported inherited health problem or birth defect in any of child's siblings	No	8	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Reported problem in any of child's siblings appears to be a definite birth defect	No	8	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Family history of any type of cancer	No	3	11	1.0	-
	Yes	5	24	0.80	0.17 - 3.76
Family history of leukemia	No	9	35	1.0	-
	Yes	0	0	-	-
Family history of brain tumors	No	9	35	1.0	-
	Yes	0	0	-	-
History of any cancer in grandparents	No	4	11	1.0	-
	Yes	5	24	0.60	0.14 - 2.49
History of any cancer in parents	No	9	33	1.0	-
	Yes	0	2	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	9	35	1.0	-
	Yes	0	0	-	-

Table 30c. Interview Study Analysis of Family Medical History: Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Self reported inherited health problem or birth defect in child	No	17	69	1.0	-
	Yes	0	1	0	-
Reported problem in child appears to be a definite birth defect	No	17	70	1.0	-
	Yes	0	0	-	-
Self reported inherited health problem or birth defect in any of child's siblings	No	17	65	1.0	-
	Yes	0	5	0	-
Reported problem in any of child's siblings appears to be a definite birth defect	No	17	68	1.0	-
	Yes	0	2	0	-
Family history of any type of cancer	No	4	23	1.0	-
	Yes	13	46	1.53	0.42 - 5.67
Family history of leukemia	No	16	69	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Family history of brain tumors	No	17	66	1.0	-
	Yes	0	4	0	-
History of any cancer in grandparents	No	4	24	1.0	-
	Yes	13	46	1.63	0.45 - 5.88
History of any cancer in parents	No	15	69	1.0	-
	Yes	2	1	7.29	0.66 - 80.8

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	17	70	1.0	-
	Yes	0	0	-	-
Nervous System Cancer Diagnosis Ages 0 through 4					
Self reported inherited health problem or birth defect in child	No	8	35	1.0	-
	Yes	0	0	-	-
Reported problem in child appears to be a definite birth defect	No	8	35	1.0	-
	Yes	0	0	-	-
Self reported inherited health problem or birth defect in any of child's siblings	No	8	33	1.0	-
	Yes	0	2	0	-
Reported problem in any of child's siblings appears to be a definite birth defect	No	8	34	1.0	-
	Yes	0	1	0	-
Family history of any type of cancer	No	1	12	1.0	-
	Yes	7	22	3.93	0.36 - 42.4
Family history of leukemia	No	8	34	1.0	-
	Yes	0	1	0	-
Family history of brain tumors	No	8	33	1.0	-
	Yes	0	2	0	-
History of any cancer in grandparents	No	1	13	1.0	-
	Yes	7	22	4.27	0.41 - 44.0
History of any cancer in parents	No	6	35	1.0	-
	Yes	2	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	8	35	1.0	-
	Yes	0	0	-	-

Table 30d. Interview Study Analysis of Family Medical History: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Self reported inherited health problem or birth defect in child	No	12	50	1.0	-
	Yes	0	1	0	-
Reported problem in child appears to be a definite birth defect	No	12	51	1.0	-
	Yes	0	0	-	-
Self reported inherited health problem or birth defect in any of child's siblings	No	12	47	1.0	-
	Yes	0	4	0	-
Reported problem in any of child's siblings appears to be a definite birth defect	No	12	49	1.0	-
	Yes	0	2	0	-
Family history of any type of cancer	No	3	16	1.0	-
	Yes	9	34	1.26	0.28 - 5.66
Family history of leukemia	No	11	51	1.0	-
	Yes	1	0	-	-
Family history of brain tumors	No	12	47	1.0	-
	Yes	0	4	0	-
History of any cancer in grandparents	No	3	17	1.0	-
	Yes	9	34	1.38	0.32 - 5.95
History of any cancer in parents	No	11	50	1.0	-
	Yes	1	1	1.26	0.28 - 5.66

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	12	51	1.0	-
	Yes	0	0	-	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Self reported inherited health problem or birth defect in child	No	3	16	1.0	-
	Yes	0	0	-	-
Reported problem in child appears to be a definite birth defect	No	3	16	1.0	-
	Yes	0	0	-	-
Self reported inherited health problem or birth defect in any of child's siblings	No	3	15	1.0	-
	Yes	0	1	0	-
Reported problem in any of child's siblings appears to be a definite birth defect	No	3	15	1.0	-
	Yes	0	1	0	-
Family history of any type of cancer	No	0	5	-	-
	Yes	3	10	-	-
Family history of leukemia	No	3	16	1.0	-
	Yes	0	0	-	-
Family history of brain tumors	No	3	14	1.0	-
	Yes	0	2	0	-
History of any cancer in grandparents	No	0	6	-	-
	Yes	3	10	-	-
History of any cancer in parents	No	2	16	1.0	-
	Yes	1	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
History of any cancer in siblings	No	3	16	1.0	-
	Yes	0	0	-	-

Table 31. Health, Medical Conditions and Medical Procedures

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Prenatal Exposure				
Mother had measles during pregnancy:				
Yes	0	0.0	0	0.0
No	38	95.0	156	98.1
Unknown	2	5.0	3	1.9
Mother had rubella during pregnancy:				
Yes	0	0.0	0	0.0
No	38	95.0	156	98.1
Unknown	2	5.0	3	1.9
Mother had chickenpox during pregnancy:				
Yes	0	0.0	0	0.0
No	38	95.0	156	98.1
Unknown	2	5.0	3	1.9
Mother had cytomegalovirus during pregnancy:				
Yes	0	0.0	0	0.0
No	38	95.0	156	98.1
Unknown	2	5.0	3	1.9
Mother had fever >100° for 3 or more days during pregnancy:				
Yes	1	2.5	5	3.1
No	37	92.5	149	93.7
Unknown	2	5.0	5	3.1
Mother had mononucleosis during pregnancy:				
Yes	0	0.0	2	1.3
No	38	95.0	154	96.9
Unknown	2	5.0	3	1.9

Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Mother had vaginal or uterine bleeding during pregnancy:				
Yes	3	7.5	19	11.9
No	35	87.5	136	85.5
Unknown	2	5.0	4	2.5
Mother had high blood pressure during pregnancy:				
Yes	3	7.5	10	6.3
No	35	87.5	146	91.8
Unknown	2	5.0	3	1.9
Mother had toxemia or pre-eclampsia during pregnancy:				
Yes	1	2.5	8	5.0
No	37	92.5	148	93.1
Unknown	2	5.0	3	1.9
Mother had protein in urine during pregnancy:				
Yes	1	2.5	6	3.8
No	37	92.5	145	91.2
Unknown	2	5.0	8	5.0
Mother had nausea or vomiting > 3 months during pregnancy:				
Yes	5	12.5	11	6.9
No	33	82.5	145	91.2
Unknown	2	5.0	3	1.9
Mother had aplastic anemia, due to bone marrow defects during pregnancy:				
Yes	0	0.0	0	0.0
No	38	95.0	156	98.1
Unknown	2	5.0	3	1.9
Mother had other illnesses or complications during pregnancy:				
Yes	9	22.5	29	18.2
No	29	72.5	129	81.1
Unknown	2	5.0	1	0.6

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Mother took antibiotics for 5+ days during pregnancy:				
Yes	5	12.5	23	14.5
No	31	77.5	130	81.8
Unknown	4	10.0	6	3.8
Mother took steroids for 5+ days during pregnancy:				
Yes	1	2.5	0	0.0
No	37	92.5	156	98.1
Unknown	2	5.0	3	1.9
Mother had any vaccinations during pregnancy:				
Yes	1	2.5	3	1.9
No	37	92.5	151	95.0
Unknown	2	5.0	5	3.1
Mother had dental x-rays during pregnancy:				
Yes	9	22.5	46	28.9
No	29	72.5	99	62.3
Unknown	2	5.0	14	8.8
Mother had diagnostic x-rays or radiation therapy during pregnancy:				
Yes	5	12.5	9	5.7
No	33	82.5	147	92.5
Unknown	2	5.0	3	1.9
<i>Mothers who had diagnostic x-rays:</i>				
<i>Average total x-rays</i>	<i>1.0</i>		<i>1.1</i>	
Mother received blood or blood products during pregnancy:				
Yes	0	0.0	1	0.6
No	38	95.0	155	97.5
Unknown	2	5.0	3	1.9

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Postnatal Exposure				
Oxygen given to child immediately after birth:				
Yes	2	5.0	8	5.0
No	37	92.5	148	93.1
Unknown	1	2.5	3	1.9
Child had an IV tube immediately after birth:				
Yes	1	2.5	8	5.0
No	38	95.0	149	93.7
Unknown	1	2.5	2	1.3
Child was breast fed:				
Yes	17	42.5	65	40.9
No	22	55.0	92	57.9
Unknown	1	2.5	2	1.3
<i>Children who were breast fed:</i>				
<i>Average number of breast feeding months</i>	9.6		6.8	
<i>Mother took multivitamins for 5+ days while breast feeding:</i>				
Yes	13	76.5	48	73.9
No	4	23.5	14	21.5
Unknown	0	0.0	3	4.6
<i>Mother took antibiotics while breast feeding:</i>				
Yes	0	0.0	5	7.7
No	16	94.1	59	90.8
Unknown	1	5.9	1	1.5
<i>Mother took steroids while breast feeding:</i>				
Yes	0	0.0	0	0.0
No	17	100.0	65	100.0
Unknown	0	0.0	0	0.0
<i>Mother received a vaccine while breast feeding:</i>				
Yes	0	0.0	2	3.1
No	17	100.0	63	96.9
Unknown	0	0.0	0	0.0

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Child had phototherapy immediately after birth:				
Yes	9	22.5	37	23.3
No	29	72.5	117	73.6
Unknown	2	5.0	5	3.1
Child had problems after birth, prior to leaving hospital:				
Yes	4	10.0	19	11.9
No	35	87.5	140	88.1
Unknown	1	2.5	0	0.0
Child had mononucleosis:				
Yes	1	2.5	2	1.3
No	38	95.0	157	98.7
Unknown	1	2.5	0	0.0
Child had chickenpox:				
Yes	19	47.5	79	49.7
No	20	50.0	78	49.1
Unknown	1	2.5	2	1.3
Child had rubella:				
Yes	3	7.5	8	5.0
No	36	90.0	150	94.3
Unknown	1	2.5	1	0.6
Child had measles:				
Yes	4	10.0	28	17.6
No	35	87.5	130	81.8
Unknown	1	2.5	1	0.6
Child had mumps:				
Yes	2	5.0	12	7.6
No	37	92.5	147	92.5
Unknown	1	2.5	0	0.0
Child had cytomegalovirus:				
Yes	0	0.0	0	0.0
No	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Child had aplastic anemia:				
Yes	0	0.0	0	0.0
No	38	95.0	159	100.0
Unknown	2	5.0	0	0.0

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Child had epilepsy, seizures or convulsions:				
Yes	2	5.0	6	3.8
No	37	92.5	153	96.2
Unknown	1	2.5	0	0.0
Child had autoimmune disorder:				
Yes	1	2.5	1	0.6
No	38	95.0	158	99.4
Unknown	1	2.5	0	0.0
Child had organ transplant:				
Yes	0	0.0	0	0.0
No	39	97.5	159	100.0
Unknown	1	2.5	0	0.0
Child had immunosuppression or recurring infections:				
Yes	8	20.0	35	22.0
No	31	77.5	124	77.9
Unknown	1	2.5	0	0.0
Child had severe head injury:				
Yes	4	10.0	18	11.3
No	35	87.5	140	88.1
Unknown	1	2.5	1	0.6
Child had other major illness:				
Yes	16	40.0	43	27.0
No	23	57.5	116	73.0
Unknown	1	2.5	0	0.0
Child took antibiotics for 10+ days:				
Yes	10	25.0	21	13.2
No	28	70.0	136	85.5
Unknown	2	5.0	2	1.3
Child had DPT or DT immunization:				
Yes	38	95.0	154	96.9
No	1	2.5	5	3.1
Unknown	1	2.5	0	0.0
Child had mumps immunization:				
Yes	33	82.5	135	84.9
No	5	12.5	13	8.2
Unknown	2	5.0	11	6.9

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Characteristic	Cases (n=40)		Controls (n=159)	
	Number	Percent	Number	Percent
Child had rubella immunization:				
Yes	34	85.0	146	91.8
No	5	12.5	8	5.0
Unknown	1	2.5	5	3.1
Child had chickenpox immunization:				
Yes	5	12.5	32	20.1
No	34	85.0	121	76.1
Unknown	1	2.5	6	3.8
Child had measles immunization:				
Yes	31	77.5	139	87.4
No	8	20.0	14	8.8
Unknown	1	2.5	6	3.8
Child had polio immunization:				
Yes	37	92.5	150	94.3
No	2	5.0	7	4.4
Unknown	1	2.5	2	1.3
Child had diagnostic x-rays:				
Yes	15	37.5	41	25.8
No	24	60.0	117	73.6
Unknown	1	2.5	1	0.6
<i>Children who had diagnostic x-rays:</i>				
Average total x-rays	1.4		1.4	
Child had dental x-rays:				
Yes	19	47.5	84	52.8
No	20	50.0	73	45.9
Unknown	1	2.5	2	1.3
Child had transfusion:				
Yes	1	2.5	2	1.3
No	38	95.0	157	98.7
Unknown	1	2.5	0	0.0

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Table 32a. Interview Study Analysis of Health, Medical Conditions and Medical Procedures: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Mother had fever >100° for 3 or more days during pregnancy	No	37	149	1.0	-
	Yes	1	5	0.76	0.09 - 6.51
Mother had vaginal or uterine bleeding during pregnancy	No	35	136	1.0	-
	Yes	3	19	0.60	0.17 - 2.11
Mother had high blood pressure during pregnancy	No	35	146	1.0	-
	Yes	3	10	1.18	0.32 - 4.41
Mother had toxemia or pre-eclampsia during pregnancy	No	37	148	1.0	-
	Yes	1	8	0.48	0.06 - 4.01
Mother had protein in urine during pregnancy	No	37	145	1.0	-
	Yes	1	6	0.61	0.07 - 5.08
Mother had nausea or vomiting >3 months during pregnancy	No	33	145	1.0	-
	Yes	5	11	1.90	0.60 - 6.02
Mother had other illnesses or complications during pregnancy	No	29	129	1.0	-
	Yes	9	29	1.30	0.55 - 3.10
Mother took antibiotics for 5+ days during pregnancy	No	31	130	1.0	-
	Yes	5	23	0.81	0.29 - 2.27
Mother had any vaccinations during pregnancy	No	37	151	1.0	-
	Yes	1	3	1.24	0.13 - 11.9

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother had dental x-rays during pregnancy	No	29	99	1.0	-
	Yes	9	46	0.65	0.28 - 1.49
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	33	147	1.0	-
	Yes	5	9	2.50	0.79 - 7.98
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Oxygen given to child immediately after birth	No	37	148	1.0	-
	Yes	2	8	0.97	0.20 - 4.74
Child had IV tube immediately after birth	No	38	149	1.0	-
	Yes	1	8	0.48	0.06 - 4.01
Child had phototherapy immediately after birth	No	29	117	1.0	-
	Yes	9	37	0.93	0.39 - 2.18
Child had problems after birth, prior to leaving hospital	No	35	140	1.0	-
	Yes	4	19	0.86	0.27 - 2.74
Child was breast fed	No	22	92	1.0	-
	Yes	17	65	1.15	0.56 - 2.35
Mother took multivitamins for 5+ days while breast feeding	No	4	15	1.0	-
	Yes	13	48	0.79	0.21 - 3.00
Child had mononucleosis	No	38	157	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Child had chickenpox	No	20	78	1.0	-
	Yes	19	79	0.82	0.33 - 2.05
Child had rubella	No	36	150	1.0	-
	Yes	3	8	1.80	0.31 - 10.6

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had measles	No	35	130	1.0	-
	Yes	4	28	0.42	0.12 - 1.46
Child had mumps	No	37	147	1.0	-
	Yes	2	12	0.58	0.11 - 3.16
Child had epilepsy, seizures or convulsions	No	37	153	1.0	-
	Yes	2	6	1.40	0.25 - 7.97
Child had autoimmune disorder	No	38	158	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Child had immunosuppression or recurring infections	No	31	124	1.0	-
	Yes	8	35	0.88	0.35 - 2.21
Child had severe head injury	No	35	140	1.0	-
	Yes	4	18	0.87	0.28 - 2.69
Child had other major illnesses	No	23	116	1.0	-
	Yes	16	43	1.93	0.91 - 4.08
Child took antibiotics for 10 days or more	No	28	136	1.0	-
	Yes	10	21	2.37	1.02 - 5.54
Child had DPT or DT immunization	No	1	5	1.0	-
	Yes	38	154	1.35	0.15 - 12.4
Child had mumps immunization	No	5	13	1.0	-
	Yes	33	135	0.72	0.17 - 3.15
Child had rubella immunization	No	5	8	1.0	-
	Yes	34	146	0.23	0.04 - 1.38

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had chickenpox immunization	No	34	121	1.0	-
	Yes	5	32	0.57	0.21 - 1.55
Child had measles immunization	No	8	14	1.0	-
	Yes	31	139	0.37	0.12 - 1.14
Child had polio immunization	No	2	7	1.0	-
	Yes	37	150	1.05	0.15 - 7.54
Child had dental x-rays	No	20	73	1.0	-
	Yes	19	84	0.44	0.12 - 1.69
Child had diagnostic x-rays or radiation therapy	No	24	117	1.0	-
	Yes	15	41	1.78	0.85 - 3.73
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	30	123	1.0	-
	Yes	9	35	1.05	0.43 - 2.55
Child's total number of diagnostic x-rays or radiation therapy	None	24	117	1.0	-
	1	10	29	1.65	0.72 - 3.76
	>1	5	12	2.20	0.65 - 7.41
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	30	123	1.0	-
	1	6	24	1.03	0.38 - 2.77
	>1	3	11	1.13	0.26 - 4.93
Child had transfusion	No	38	157	1.0	-
	Yes	1	2	2.00	0.18 - 22.1

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Mother had fever >100° for 3 or more days during pregnancy	No	16	65	1.0	-
	Yes	1	5	0.76	0.09 - 6.51
Mother had vaginal or uterine bleeding during pregnancy	No	14	59	1.0	-
	Yes	3	10	1.20	0.30 - 4.78
Mother had high blood pressure during pregnancy	No	15	65	1.0	-
	Yes	2	5	1.53	0.30 - 7.91
Mother had toxemia or pre-eclampsia during pregnancy	No	16	66	1.0	-
	Yes	1	4	1.00	0.10 - 10.1
Mother had protein in urine during pregnancy	No	16	64	1.0	-
	Yes	1	4	0.94	0.10 - 8.43
Mother had nausea or vomiting >3 months during pregnancy	No	14	67	1.0	-
	Yes	3	3	4.76	0.76 - 29.9
Mother had other illnesses or complications during pregnancy	No	12	57	1.0	-
	Yes	5	13	1.71	0.50 - 5.82
Mother had antibiotics for 5+ days during pregnancy	No	13	56	1.0	-
	Yes	4	13	1.22	0.36 - 4.05
Mother had any vaccinations during pregnancy	No	16	68	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Mother had dental x-rays during pregnancy	No	13	40	1.0	-
	Yes	4	24	0.49	0.14 - 1.69

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	15	66	1.0	-
	Yes	2	4	2.67	0.45 - 16.0
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Oxygen given to child immediately after birth	No	15	65	1.0	-
	Yes	2	4	1.90	0.35 - 10.4
Child had IV tube immediately after birth	No	16	66	1.0	-
	Yes	1	4	1.00	0.11 - 8.95
Child had phototherapy immediately after birth	No	12	48	1.0	-
	Yes	5	20	0.95	0.30 - 2.97
Child had problems after birth, prior to leaving hospital	No	14	59	1.0	-
	Yes	3	12	1.08	0.26 - 4.45
Child was breast fed	No	8	35	1.0	-
	Yes	9	35	1.18	0.44 - 3.17
Mother took multivitamins for 5+ days while breast feeding	No	3	6	1.0	-
	Yes	6	27	0.23	0.02 - 2.25
Child had mononucleosis	No	17	71	1.0	-
	Yes	0	0	-	-
Child had chickenpox	No	13	63	1.0	-
	Yes	4	7	3.11	0.63 - 15.3
Child had rubella	No	17	71	1.0	-
	Yes	0	0	-	-
Child had measles	No	17	71	1.0	-
	Yes	0	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had mumps	No	17	71	1.0	-
	Yes	0	0	-	-
Child had epilepsy, seizures or convulsions	No	16	70	1.0	-
	Yes	1	1	0	-
Child had autoimmune disorder	No	17	70	1.0	-
	Yes	0	1	0	-
Child had immunosuppression or recurring infections	No	13	59	1.0	-
	Yes	4	12	1.57	0.37 - 6.67
Child had severe head injury	No	15	67	1.0	-
	Yes	2	4	2.00	0.37 - 10.9
Child had other major illnesses	No	11	57	1.0	-
	Yes	6	14	2.50	0.71 - 8.73
Child took antibiotics for 10 days or more	No	11	61	1.0	-
	Yes	6	9	4.35	1.17 - 16.1
Child had DPT or DT immunization	No	1	4	1.0	-
	Yes	16	67	1.07	0.11 - 10.7
Child had mumps immunization	No	3	8	1.0	-
	Yes	14	55	1.07	0.11 - 10.7
Child had rubella immunization	No	3	7	1.0	-
	Yes	14	61	0.52	0.06 - 4.39
Child had chickenpox immunization	No	14	56	1.0	-
	Yes	3	10	1.22	0.30 - 5.00

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had measles immunization	No	3	9	1.0	-
	Yes	14	56	1.35	0.15 - 12.4
Child had polio immunization	No	2	6	1.0	-
	Yes	15	63	0.84	0.10 - 7.08
Child had dental x-rays	No	16	65	1.0	-
	Yes	1	5	0.74	0.08 - 6.87
Child had diagnostic x-rays or radiation therapy	No	8	57	1.0	-
	Yes	9	13	4.67	1.49 - 14.6
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	14	60	1.0	-
	Yes	3	10	1.36	0.28 - 6.70
Child's total number of diagnostic x-rays or radiation therapy	None	8	57	1.0	-
	1	7	10	5.13	1.40 - 18.8
	>1	2	3	3.75	0.58 - 24.1
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	14	60	1.0	-
	1	3	8	1.75	0.34 - 9.05
	>1	0	2	0	-
Child had transfusion	No	16	69	1.0	-
	Yes	1	2	2.00	0.18 - 22.1

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Table 32b. Interview Study Analysis of Health, Medical Conditions and Medical Procedures: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Mother had fever >100 ° for 3 or more days during pregnancy	No	21	81	1.0	-
	Yes	0	3	0	-
Mother had vaginal or uterine bleeding during pregnancy	No	20	74	1.0	-
	Yes	1	12	0.31	0.04 - 2.50
Mother had high blood pressure during pregnancy	No	19	79	1.0	-
	Yes	2	7	1.15	0.23 - 5.83
Mother had toxemia or pre-eclampsia during pregnancy	No	21	84	1.0	-
	Yes	0	2	0	-
Mother had protein in urine during pregnancy	No	21	79	1.0	-
	Yes	0	4	0	-
Mother had nausea or vomiting >3 months during pregnancy	No	17	79	1.0	-
	Yes	4	7	2.57	0.67 - 9.83
Mother had other illnesses or complications during pregnancy	No	19	72	1.0	-
	Yes	2	15	0.47	0.09 - 2.30
Mother had antibiotics for 5+ days during pregnancy	No	19	72	1.0	-
	Yes	1	11	0.33	0.04 - 2.68
Mother had any vaccinations during pregnancy	No	21	84	1.0	-
	Yes	0	1	0	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother had dental x-rays during pregnancy	No	18	57	1.0	-
	Yes	3	25	0.38	0.10 - 1.38
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	17	80	1.0	-
	Yes	4	6	2.78	0.73 - 10.5
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Oxygen given to child immediately after birth	No	22	80	1.0	-
	Yes	0	5	0	-
Child had IV tube immediately after birth	No	22	82	1.0	-
	Yes	0	5	0	-
Child had phototherapy immediately after birth	No	16	66	1.0	-
	Yes	5	18	1.15	0.33 - 3.99
Child had problems after birth, prior to leaving hospital	No	20	77	1.0	-
	Yes	2	11	0.69	0.14 - 3.47
Child was breast fed	No	14	50	1.0	-
	Yes	8	37	0.77	0.30 - 2.02
Mother took multivitamins for 5+ days while breast feeding	No	3	10	1.0	-
	Yes	5	25	0.50	0.08 - 3.07
Child had mononucleosis	No	21	87	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Child had chickenpox	No	11	42	1.0	-
	Yes	11	45	0.88	0.27 - 2.88
Child had rubella	No	21	85	1.0	-
	Yes	1	3	1.40	0.12 - 16.4

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had measles	No	21	72	1.0	-
	Yes	1	16	0.15	0.02 - 1.37
Child had mumps	No	21	82	1.0	-
	Yes	1	6	0.53	0.04 - 6.68
Child had epilepsy, seizures or convulsions	No	22	86	1.0	-
	Yes	0	2	0	-
Child had autoimmune disorder	No	21	88	1.0	-
	Yes	1	0	-	-
Child had immunosuppression or recurring infections	No	16	63	1.0	-
	Yes	6	25	0.94	0.32 - 2.79
Child had severe head injury	No	20	72	1.0	-
	Yes	2	15	0.49	0.10 - 2.28
Child had other major illnesses	No	11	62	1.0	-
	Yes	11	26	2.38	0.91 - 6.23
Child took antibiotics for 10 days or more	No	15	72	1.0	-
	Yes	7	15	2.13	0.77 - 5.93
Child had DPT or DT immunization	No	0	0	-	-
	Yes	22	88	-	-
Child had mumps immunization	No	2	3	1.0	-
	Yes	20	81	0.37	0.05 - 2.86
Child had rubella immunization	No	2	1	1.0	-
	Yes	20	86	0.14	0.01 - 1.52

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had chickenpox immunization	No	19	62	1.0	-
	Yes	3	21	0.50	0.14 - 1.74
Child had measles immunization	No	3	3	1.0	-
	Yes	19	83	0.21	0.03 - 1.30
Child had polio immunization	No	1	0	-	-
	Yes	21	88	-	-
Child had dental x-rays	No	11	36	1.0	-
	Yes	11	50	0.37	0.07 - 2.12
Child had diagnostic x-rays or radiation therapy	No	12	61	1.0	-
	Yes	10	26	2.02	0.75 - 5.44
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	14	63	1.0	-
	Yes	8	24	1.51	0.54 - 4.21
Child's total number of diagnostic x-rays or radiation therapy	None	12	61	1.0	-
	1	7	16	2.21	0.73 - 6.67
	>1	3	10	1.64	0.36 - 7.51
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	14	63	1.0	-
	1	5	15	1.45	0.45 - 4.66
	>1	3	9	1.64	0.33 - 8.13
Child had transfusion	No	21	87	1.0	-
	Yes	1	1	4.00	0.25 - 64.0

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Mother had fever >100 ° for 3 or more days during pregnancy	No	9	32	1.0	-
	Yes	0	3	0	-
Mother had vaginal or uterine bleeding during pregnancy	No	8	30	1.0	-
	Yes	1	5	0.77	0.08 - 7.76
Mother had high blood pressure during pregnancy	No	8	33	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Mother had toxemia or pre-eclampsia during pregnancy	No	9	34	1.0	-
	Yes	0	1	0	-
Mother had protein in urine during pregnancy	No	9	30	1.0	-
	Yes	0	3	0	-
Mother had nausea or vomiting >3 months during pregnancy	No	7	34	1.0	-
	Yes	2	1	8.00	0.73 - 88.2
Mother had other illnesses or complications during pregnancy	No	9	31	1.0	-
	Yes	0	4	0	-
Mother had antibiotics for 5+ days during pregnancy	No	8	28	1.0	-
	Yes	1	6	0.62	0.07 - 5.44
Mother had any vaccinations during pregnancy	No	9	34	1.0	-
	Yes	0	1	0	-
Mother had dental x-rays during pregnancy	No	8	23	1.0	-
	Yes	1	11	0.27	0.03 - 2.32
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	7	33	1.0	-
	Yes	2	2	4.00	0.56 - 28.4

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Oxygen given to child immediately after birth	No	9	32	1.0	-
	Yes	0	2	0	-
Child had IV tube immediately after birth	No	9	33	1.0	-
	Yes	0	2	0	-
Child had phototherapy immediately after birth	No	7	23	1.0	-
	Yes	2	10	0.71	0.12 - 4.09
Child had problems after birth, prior to leaving hospital	No	8	29	1.0	-
	Yes	1	7	0.49	0.05 - 4.93
Child was breast fed	No	6	17	1.0	-
	Yes	3	18	0.52	0.13 - 2.18
Mother took multivitamins for 5+ days while breast feeding	No	2	4	1.0	-
	Yes	1	12	0	-
Child had mononucleosis	No	9	36	1.0	-
	Yes	0	0	-	-
Child had chickenpox	No	6	33	1.0	-
	Yes	3	3	7.81	0.77 - 78.8
Child had rubella	No	9	36	1.0	-
	Yes	0	0	-	-
Child had measles	No	9	36	1.0	-
	Yes	0	0	-	-
Child had mumps	No	9	36	1.0	-
	Yes	0	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had epilepsy, seizures or convulsions	No	9	36	1.0	-
	Yes	0	0	-	-
Child had autoimmune disorder	No	9	36	1.0	-
	Yes	0	0	-	-
Child had immunosuppression or recurring infections	No	6	25	1.0	-
	Yes	3	11	1.16	0.22 - 6.09
Child had severe head injury	No	8	32	1.0	-
	Yes	1	4	1.00	0.11 - 8.95
Child had other major illnesses	No	5	28	1.0	-
	Yes	4	8	2.81	0.59 - 13.5
Child took antibiotics for 10 days or more	No	5	29	1.0	-
	Yes	4	7	3.27	0.68 - 15.7
Child had DPT or DT immunization	No	0	0	-	-
	Yes	9	36	-	-
Child had mumps immunization	No	1	1	1.0	-
	Yes	8	33	0.25	0.02 - 4.00
Child had rubella immunization	No	1	1	1.0	-
	Yes	8	35	0.25	0.02 - 4.00
Child had chickenpox immunization	No	7	24	1.0	-
	Yes	2	8	0.85	0.16 - 4.48
Child had measles immunization	No	1	1	1.0	-
	Yes	8	33	0.29	0.02 - 4.65

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had polio immunization	No	1	0	-	-
	Yes	8	36	-	-
Child had dental x-rays	No	8	31	1.0	-
	Yes	1	4	0.93	0.09 - 9.34
Child had diagnostic x-rays or radiation therapy	No	4	26	1.0	-
	Yes	5	9	3.46	0.75 - 16.0
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	6	27	1.0	-
	Yes	3	8	1.64	0.31 - 8.74
Child's total number of diagnostic x-rays or radiation therapy	None	4	26	1.0	-
	1	5	6	9.43	1.02 - 87.4
	>1	0	3	0	-
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	6	27	1.0	-
	1	3	6	2.24	0.39 - 13.0
	>1	0	2	0	-
Child had transfusion	No	8	35	1.0	-
	Yes	1	1	4.00	0.25 - 64.0

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Table 32c. Interview Study Analysis of Health, Medical Conditions and Medical Procedures: Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Mother had fever >100 ° for 3 or more days during pregnancy	No	16	68	1.0	-
	Yes	1	2	1.81	0.16 - 20.1
Mother had vaginal or uterine bleeding during pregnancy	No	15	62	1.0	-
	Yes	2	7	1.11	0.22 - 5.62
Mother had high blood pressure during pregnancy	No	16	67	1.0	-
	Yes	1	3	1.24	0.13 - 11.9
Mother had toxemia or pre-eclampsia during pregnancy	No	16	64	1.0	-
	Yes	1	6	0.65	0.07 - 5.72
Mother had protein in urine during pregnancy	No	16	66	1.0	-
	Yes	1	2	1.65	0.15 - 18.2
Mother had nausea or vomiting >3 months during pregnancy	No	16	66	1.0	-
	Yes	1	4	0.87	0.08 - 9.22
Mother had other illnesses or complications during pregnancy	No	10	57	1.0	-
	Yes	7	14	2.62	0.83 - 8.31
Mother had antibiotics for 5+ days during pregnancy	No	12	58	1.0	-
	Yes	4	12	1.33	0.37 - 4.72
Mother had any vaccinations during pregnancy	No	16	67	1.0	-
	Yes	1	2	1.81	0.16 - 20.1

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother had dental x-rays during pregnancy	No	11	42	1.0	-
	Yes	6	21	1.08	0.35 - 3.34
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	16	67	1.0	-
	Yes	1	3	1.81	0.16 - 20.1
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Oxygen given to child immediately after birth	No	15	68	1.0	-
	Yes	2	3	2.51	0.42 - 15.1
Child had IV tube immediately after birth	No	16	67	1.0	-
	Yes	1	3	1.33	0.14 - 12.8
Child had phototherapy immediately after birth	No	13	51	1.0	-
	Yes	4	19	0.76	0.23 - 2.54
Child had problems after birth, prior to leaving hospital	No	15	63	1.0	-
	Yes	2	8	1.12	0.21 - 5.97
Child was breast fed	No	8	42	1.0	-
	Yes	9	28	2.03	0.64 - 6.48
Mother took multivitamins for 5+ days while breast feeding	No	1	5	1.0	-
	Yes	8	23	1.50	0.16 - 14.4
Child had mononucleosis	No	17	70	1.0	-
	Yes	0	1	0	-
Child had chickenpox	No	9	36	1.0	-
	Yes	8	34	0.74	0.17 - 3.09
Child had rubella	No	15	65	1.0	-
	Yes	2	5	2.46	0.16 - 36.8

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had measles	No	14	58	1.0	-
	Yes	3	12	0.97	0.19 - 4.90
Child had mumps	No	16	65	1.0	-
	Yes	1	6	0.63	0.07 - 5.89
Child had epilepsy, seizures or convulsions	No	15	67	1.0	-
	Yes	2	4	2.45	0.33 - 18.5
Child had autoimmune disorder	No	17	70	1.0	-
	Yes	0	1	0	-
Child had immunosuppression or recurring infections	No	15	61	1.0	-
	Yes	2	10	0.73	0.12 - 4.39
Child had severe head injury	No	15	68	1.0	-
	Yes	2	3	2.67	0.45 - 16.0
Child had other major illnesses	No	12	54	1.0	-
	Yes	5	17	1.38	0.40 - 4.71
Child took antibiotics for 10 days or more	No	13	64	1.0	-
	Yes	3	6	3.00	0.67 - 13.4
Child had DPT or DT immunization	No	1	5	1.0	-
	Yes	16	66	1.35	0.15 - 12.4
Child had mumps immunization	No	3	10	1.0	-
	Yes	13	54	1.46	0.15 - 14.4
Child had rubella immunization	No	3	7	1.0	-
	Yes	14	60	0.46	0.04 - 5.36

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had chickenpox immunization	No	15	59	1.0	-
	Yes	2	11	0.76	0.14 - 4.06
Child had measles immunization	No	5	11	1.0	-
	Yes	12	56	0.54	0.13 - 2.34
Child had polio immunization	No	1	7	1.0	-
	Yes	16	62	3.04	0.27 - 34.3
Child had dental x-rays	No	9	37	1.0	-
	Yes	8	34	0.59	0.06 - 5.41
Child had diagnostic x-rays or radiation therapy	No	12	56	1.0	-
	Yes	5	15	1.51	0.48 - 4.70
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	16	60	1.0	-
	Yes	1	11	0.34	0.04 - 3.02
Child's total number of diagnostic x-rays or radiation therapy	None	12	56	1.0	-
	1	3	13	1.13	0.30 - 4.25
	>1	2	2	4.12	0.56 - 30.3
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	16	60	1.0	-
	1	1	9	0.43	0.05 - 3.61
	>1	0	2	0	-
Child had transfusion	No	17	70	1.0	-
	Yes	0	1	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Mother had fever >100 ° for 3 or more days during pregnancy	No	7	33	1.0	-
	Yes	1	2	1.81	0.16 - 20.1
Mother had vaginal or uterine bleeding during pregnancy	No	6	29	1.0	-
	Yes	2	5	1.59	0.28 - 8.93
Mother had high blood pressure during pregnancy	No	7	32	1.0	-
	Yes	1	3	1.24	0.13 - 11.9
Mother had toxemia or pre-eclampsia during pregnancy	No	7	32	1.0	-
	Yes	1	3	1.40	0.12 - 16.4
Mother had protein in urine during pregnancy	No	7	34	1.0	-
	Yes	1	1	3.46	0.22 - 55.8
Mother had nausea or vomiting >3 months during pregnancy	No	7	33	1.0	-
	Yes	1	2	2.00	0.11 - 37.8
Mother had other illnesses or complications during pregnancy	No	3	26	1.0	-
	Yes	5	9	3.45	0.75 - 15.9
Mother had antibiotics for 5+ days during pregnancy	No	5	28	1.0	-
	Yes	3	7	1.86	0.40 - 8.66
Mother had any vaccinations during pregnancy	No	7	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Mother had dental x-rays during pregnancy	No	5	17	1.0	-
	Yes	3	13	0.75	0.15 - 3.71
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	8	33	1.0	-
	Yes	0	2	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Oxygen given to child immediately after birth	No	6	33	1.0	-
	Yes	2	2	3.72	0.52 - 26.5
Child had IV tube immediately after birth	No	7	33	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Child had phototherapy immediately after birth	No	5	25	1.0	-
	Yes	3	10	1.20	0.26 - 5.44
Child had problems after birth, prior to leaving hospital	No	6	30	1.0	-
	Yes	2	5	2.05	0.33 - 12.7
Child was breast fed	No	2	18	1.0	-
	Yes	6	17	3.16	0.61 - 16.5
Mother took multivitamins for 5+ days while breast feeding	No	1	2	1.0	-
	Yes	5	15	0.50	0.03 - 7.99
Child had mononucleosis	No	8	35	1.0	-
	Yes	0	0	-	-
Child had chickenpox	No	7	30	1.0	-
	Yes	1	4	0.74	0.04 - 12.6
Child had rubella	No	8	35	1.0	-
	Yes	0	0	-	-
Child had measles	No	8	35	1.0	-
	Yes	0	0	-	-
Child had mumps	No	8	35	1.0	-
	Yes	0	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had epilepsy, seizures or convulsions	No	7	34	1.0	-
	Yes	1	1	-	-
Child had autoimmune disorder	No	8	34	1.0	-
	Yes	0	1	0	-
Child had immunosuppression or recurring infections	No	7	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Child had severe head injury	No	7	35	1.0	-
	Yes	1	0	-	-
Child had other major illnesses	No	6	29	1.0	-
	Yes	2	6	2.03	0.25 - 16.4
Child took antibiotics for 10 days or more	No	6	32	1.0	-
	Yes	2	2	8.00	0.73 - 88.2
Child had DPT or DT immunization	No	1	4	1.0	-
	Yes	7	31	1.07	0.11 - 10.7
Child had mumps immunization	No	2	7	-	-
	Yes	6	22	-	-
Child had rubella immunization	No	2	6	1.0	-
	Yes	6	26	1.15	0.07 - 20.5
Child had chickenpox immunization	No	7	32	1.0	-
	Yes	1	2	4.00	0.25 - 64.0
Child had measles immunization	No	2	8	-	-
	Yes	6	23	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had polio immunization	No	1	6	1.0	-
	Yes	7	27	2.68	0.22 - 33.1
Child had dental x-rays	No	8	34	1.0	-
	Yes	0	1	0	-
Child had diagnostic x-rays or radiation therapy	No	4	31	1.0	-
	Yes	4	4	6.64	1.19 - 36.9
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	8	33	1.0	-
	Yes	0	2	0	-
Child's total number of diagnostic x-rays or radiation therapy	None	4	31	1.0	-
	1	2	4	3.72	0.52 - 26.5
	>1	2	0	-	-
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	8	33	1.0	-
	1	0	2	0	-
	>1	0	0	-	-
Child had transfusion	No	8	34	1.0	-
	Yes	0	1	0	-

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**Table 32d. Interview Study Analysis of Health, Medical Conditions and Medical Procedures:
Brain and Central Nervous System Cancers**

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Diagnosis Ages 0 through 19					
Mother had fever >100 ° for 3 or more days during pregnancy	No	12	50	1.0	-
	Yes	0	1	0	-
Mother had vaginal or uterine bleeding during pregnancy	No	12	47	1.0	-
	Yes	0	3	0	-
Mother had high blood pressure during pregnancy	No	12	51	1.0	-
	Yes	0	0	-	-
Mother had toxemia or pre-eclampsia during pregnancy	No	12	48	1.0	-
	Yes	0	3	0	-
Mother had protein in urine during pregnancy	No	12	48	1.0	-
	Yes	0	1	0	-
Mother had nausea or vomiting >3 months during pregnancy	No	12	49	1.0	-
	Yes	0	2	0	-
Mother had other illnesses or complications during pregnancy	No	8	44	1.0	-
	Yes	4	8	2.55	0.60 - 10.9
Mother had antibiotics for 5+ days during pregnancy	No	8	44	1.0	-
	Yes	3	7	1.83	0.39 - 8.67
Mother had any vaccinations during pregnancy	No	11	48	1.0	-
	Yes	1	2	1.81	0.16 - 20.1

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother had dental x-rays during pregnancy	No	8	33	1.0	-
	Yes	4	15	1.05	0.27 - 4.08
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	11	48	1.0	-
	Yes	1	3	1.81	0.16 - 20.1
Postnatal Exposure: Brain and Central Nervous System Diagnosis Ages 0 through 19					
Oxygen given to child immediately after birth	No	11	51	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Child had IV tube immediately after birth	No	11	50	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Child had phototherapy immediately after birth	No	9	40	1.0	-
	Yes	3	11	1.08	0.26 - 4.46
Child had problems after birth, prior to leaving hospital	No	11	46	1.0	-
	Yes	1	6	0.77	0.08 - 7.76
Child was breast fed	No	6	31	1.0	-
	Yes	6	20	2.10	0.47 - 9.30
Mother took multivitamins for 5+ days while breast feeding	No	0	5	-	-
	Yes	6	15	-	-
Child had mononucleosis	No	12	51	1.0	-
	Yes	0	1	0	-
Child had chickenpox	No	4	18	1.0	-
	Yes	8	33	0.81	0.18 - 3.65
Child had rubella	No	10	46	1.0	-
	Yes	2	5	2.46	0.16 - 36.8

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had measles	No	9	39	1.0	-
	Yes	3	12	0.97	0.19 - 4.90
Child had mumps	No	11	46	1.0	-
	Yes	1	6	0.63	0.07 - 5.89
Child had epilepsy, seizures or convulsions	No	10	48	1.0	-
	Yes	2	4	2.45	0.33 - 18.5
Child had autoimmune disorder	No	12	51	1.0	-
	Yes	0	1	0	-
Child had immunosuppression or recurring infections	No	10	42	1.0	-
	Yes	2	10	0.73	0.12 - 4.39
Child had severe head injury	No	10	49	1.0	-
	Yes	2	3	2.67	0.45 - 16.0
Child had other major illnesses	No	8	38	1.0	-
	Yes	4	14	1.37	0.33 - 5.66
Child had antibiotics for 10 days or more	No	9	46	1.0	-
	Yes	2	6	2.00	0.37 - 10.9
Child had DPT or DT immunization	No	0	2	-	-
	Yes	12	50	-	-
Child had mumps immunization	No	1	5	1.0	-
	Yes	10	45	0.85	0.08 - 9.71
Child had rubella immunization	No	1	2	-	-
	Yes	11	49	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had chickenpox immunization	No	11	40	1.0	-
	Yes	1	11	0.33	0.04 - 2.96
Child had measles immunization	No	3	5	1.0	-
	Yes	9	47	0.29	0.06 - 1.48
Child had polio immunization	No	0	1	-	-
	Yes	12	50	-	-
Child had dental x-rays	No	4	18	1.0	-
	Yes	8	34	0.59	0.06 - 5.41
Child had diagnostic x-rays or radiation therapy	No	10	40	1.0	-
	Yes	2	12	0.68	0.13 - 3.51
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	11	42	1.0	-
	Yes	1	10	0.38	0.04 - 3.45
Child's total number of diagnostic x-rays or radiation therapy	None	10	40	1.0	-
	1	2	10	0.80	0.16 - 4.02
	>1	0	2	0	-
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	11	42	1.0	-
	1	1	8	0.48	0.06 - 4.20
	>1	0	2	0	-
Child had transfusion	No	12	52	1.0	-
	Yes	0	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Mother had fever >100 ° for 3 or more days during pregnancy	No	3	15	1.0	-
	Yes	0	1	0	-
Mother had vaginal or uterine bleeding during pregnancy	No	3	14	1.0	-
	Yes	0	1	0	-
Mother had high blood pressure during pregnancy	No	3	16	1.0	-
	Yes	0	0	-	-
Mother had toxemia or pre-eclampsia during pregnancy	No	3	16	1.0	-
	Yes	0	0	-	-
Mother had protein in urine during pregnancy	No	3	16	1.0	-
	Yes	0	0	-	-
Mother had nausea or vomiting >3 months during pregnancy	No	3	16	1.0	-
	Yes	0	0	-	-
Mother had other illnesses or complications during pregnancy	No	1	13	1.0	-
	Yes	2	3	5.06	0.40 - 64.0
Mother had antibiotics for 5+ days during pregnancy	No	1	14	1.0	-
	Yes	2	2	6.00	0.52 - 69.5
Mother had any vaccinations during pregnancy	No	2	15	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Mother had dental x-rays during pregnancy	No	2	8	1.0	-
	Yes	1	7	0.42	0.03 - 5.44
Mother had diagnostic x-rays or radiation therapy during pregnancy	No	3	14	1.0	-
	Yes	0	2	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Oxygen given to child immediately after birth	No	2	16	1.0	-
	Yes	1	0	-	-
Child had IV tube immediately after birth	No	2	16	1.0	-
	Yes	1	0	-	-
Child had phototherapy immediately after birth	No	1	14	1.0	-
	Yes	2	2	6.00	0.52 - 69.5
Child had problems after birth, prior to leaving hospital	No	2	13	1.0	-
	Yes	1	3	2.45	0.14 - 42.6
Child was breast fed	No	0	7	-	-
	Yes	3	9	-	-
Mother took multivitamins for 5+ days while breast feeding	No	0	2	-	-
	Yes	3	7	-	-
Child had mononucleosis	No	3	16	1.0	-
	Yes	0	0	-	-
Child had chickenpox	No	2	12	1.0	-
	Yes	1	3	1.15	0.04 - 32.1
Child had rubella	No	3	16	1.0	-
	Yes	0	0	-	-
Child had measles	No	3	16	1.0	-
	Yes	0	0	-	-
Child had mumps	No	3	16	1.0	-
	Yes	0	0	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had epilepsy, seizures or convulsions	No	2	15	1.0	-
	Yes	1	1	-	-
Child had autoimmune disorder	No	3	15	1.0	-
	Yes	0	1	0	-
Child had immunosuppression or recurring infections	No	2	15	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Child had severe head injury	No	2	16	1.0	-
	Yes	1	0	-	-
Child had other major illnesses	No	2	13	1.0	-
	Yes	1	3	0	-
Child took antibiotics for 10 days or more	No	2	14	1.0	-
	Yes	1	2	4.00	0.25 - 64.0
Child had DPT or DT immunization	No	0	1	-	-
	Yes	3	15	-	-
Child had mumps immunization	No	0	2	-	-
	Yes	3	13	-	-
Child had rubella immunization	No	0	1	-	-
	Yes	3	15	-	-
Subject had chickenpox immunization	No	3	13	1.0	-
	Yes	0	2	0	-
Child had measles immunization	No	0	2	-	-
	Yes	3	14	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child had polio immunization	No	0	0	-	-
	Yes	3	15	-	-
Child had dental x-rays	No	3	15	1.0	-
	Yes	0	1	0	-
Child had diagnostic x-rays or radiation therapy	No	2	15	1.0	-
	Yes	1	1	0	-
Child had diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	No	3	15	1.0	-
	Yes	0	1	0	-
Child's total number of diagnostic x-rays or radiation therapy	None	2	15	1.0	-
	1	1	1	-	-
	>1	0	0	-	-
Child's total number of diagnostic x-rays or radiation therapy, excluding those received within 1 year of diagnosis	None	3	15	1.0	-
	1	0	1	0	-
	>1	0	0	-	-
Child had transfusion	No	3	16	1.0	-
	Yes	0	0	-	-

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Table 33. Interview Study Dietary Factors

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Prenatal Exposure				
Mother ate any fresh fruit or vegetables during pregnancy:				
Yes	37	92.5	154	96.9
No	1	2.5	1	0.6
Unknown	2	5.0	4	2.5
Mother ate daily servings of fresh fruit or vegetables during pregnancy:				
Yes	29	72.5	118	74.2
No	9	22.5	37	23.3
Unknown	2	5.0	4	2.5
Mother ate any hot dogs during pregnancy:				
Yes	27	67.5	126	79.3
No	11	27.5	29	18.2
Unknown	2	5.0	4	2.5
Mother's ate hot dogs weekly during pregnancy:				
Yes	3	7.5	33	20.8
No	34	85.0	122	76.7
Unknown	3	7.5	4	2.5
Mother ate any bacon, ham, or sausage during pregnancy:				
Yes	33	82.5	138	86.8
No	5	12.5	18	11.3
Unknown	2	5.0	3	1.9
Mother ate bacon, ham, or sausage weekly during pregnancy:				
Yes	5	12.5	63	39.6
No	33	82.5	93	58.5
Unknown	2	5.0	3	1.9

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Mother ate any lunch meat during pregnancy:				
Yes	32	80.0	137	86.2
No	5	12.5	19	12.0
Unknown	3	7.5	3	1.9
Mother ate lunch meat weekly during pregnancy:				
Yes	18	45.0	102	64.2
No	19	47.5	54	33.9
Unknown	3	7.5	3	1.9
Mother ate any cured meat during pregnancy:				
Yes	36	90.0	150	94.3
No	2	5.0	6	3.8
Unknown	2	5.0	3	1.9
Mother ate cured meat weekly during pregnancy:				
Yes	22	55.0	121	76.1
No	16	40.0	35	22.0
Unknown	2	5.0	3	1.9
Mother took multivitamin supplementation for 5 days or more during pregnancy:				
Yes	25	62.5	128	80.5
No	13	32.5	28	17.6
Unknown	2	5.0	3	1.9
Mother drank tap water or drinks made from tap water at home during pregnancy:				
Yes	37	92.5	148	93.1
No	1	2.5	7	4.4
Unknown	2	5.0	4	2.5
<u>For mothers who drank tap water during pregnancy:</u>				
<i>Average number of glasses per day</i>	5.4		5.0	

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Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Postnatal Exposure				
Child ate bacon, ham or sausage:				
Yes	28	70.0	115	72.3
No	11	27.5	44	27.7
Unknown	1	2.5	0	0.0
<u>Among those who ate bacon, ham or sausage:</u>				
<i>Average annual frequency of consumption</i>	56.7		50.4	
Child ate hot dogs:				
Yes	34	85.0	130	81.8
No	5	12.5	29	18.2
Unknown	1	2.5	0	0.0
<u>Among those who ate hot dogs:</u>				
<i>Average annual frequency of consumption</i>	53.6		48.5	
Child ate lunch meats:				
Yes	23	57.5	94	59.1
No	16	40.0	65	40.9
Unknown	1	2.5	0	0.0
<u>Among those who ate lunch meats:</u>				
<i>Average annual frequency of consumption</i>	74.4		108.1	
Child ate fresh fruits or vegetables:				
Yes	36	90.0	149	93.7
No	3	7.5	10	6.3
Unknown	1	2.5	0	0.0
<u>Among those who ate fresh fruits or vegetables:</u>				
<i>Average annual frequency of consumption</i>	330.1		306.9	
Child consumed tap water or drinks made with tap water:				
Yes	38	95.0	141	88.7
No	1	2.5	18	11.3
Unknown	1	2.5	0	0.0
<u>Among those who consumed tap water or drinks made with tap water:</u>				
<i>Average number of glasses per day</i>	4.4		4.1	

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Table 34a. Interview Study Analysis of Dietary Factors: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Mother ate any fresh fruit or vegetables during pregnancy	No	1	1	1.0	-
	Yes	37	154	0.25	0.02 - 4.00
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	9	37	1.0	-
	Yes	29	118	0.96	0.42 - 2.18
Mother ate any hot dogs during pregnancy	No	11	29	1.0	-
	Yes	27	126	0.54	0.23 - 1.26
Mother ate hot dogs weekly during pregnancy	No	34	122	1.0	-
	Yes	3	33	0.33	0.10 - 1.12
Mother ate any bacon, ham, or sausage during pregnancy	No	5	18	1.0	-
	Yes	33	138	0.78	0.26 - 2.34
Mother ate bacon, ham, or sausage weekly during pregnancy	No	33	93	1.0	-
	Yes	5	63	0.21	0.08 - 0.57
Mother ate any lunch meat during pregnancy	No	5	19	1.0	-
	Yes	32	137	0.77	0.25 - 2.31
Mother ate lunch meat weekly during pregnancy	No	19	54	1.0	-
	Yes	18	102	0.44	0.22 - 0.91
Mother ate any cured meat during pregnancy	No	2	6	1.0	-
	Yes	36	150	0.46	0.07 - 2.85
Mother ate cured meat weekly during pregnancy	No	16	35	1.0	-
	Yes	22	121	0.34	0.16 - 0.74

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother took multivitamin supplements for 5+ days during pregnancy	No	13	28	1.0	-
	Yes	25	128	0.38	0.16 - 0.89
Mother drank tap water or made drinks from tap water during pregnancy	No	1	7	1.0	-
	Yes	37	148	1.54	0.17 - 13.6
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	15	80	1.0	-
	High (>4/da)	23	75	1.58	0.78 - 3.20
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	11	55	1.0	-
	Med. (4-5/da)	11	49	1.08	0.42 - 2.75
	High (6+/da)	16	51	1.52	0.66 - 3.50
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Child ate fresh fruit or vegetables	No	3	10	1.0	-
	Yes	36	149	0.72	0.07 - 6.82
Child's average daily servings of fresh fruit or vegetables	None/Low	14	64	1.0	-
	High (1+/da)	25	95	1.25	0.59 - 2.67
Child ate hot dogs	No	5	29	1.0	-
	Yes	34	130	2.23	0.47 - 10.6
Child's average weekly servings of hot dogs	None	5	29	1.0	-
	Low	19	63	2.69	0.54 - 13.4
	High (1+/wk)	15	67	1.90	0.38 - 9.45
Child ate bacon, ham, or sausage	No	11	44	1.0	-
	Yes	28	115	0.83	0.28 - 2.47

Table 34: page 2 of 24

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child's average weekly servings of bacon, ham, or sausage	None	11	44	1.0	-
	Low	14	46	1.00	0.32 - 3.16
	High (1 + /wk)	14	69	0.65	0.20 - 2.16
Child ate lunch meat	No	16	65	1.0	-
	Yes	23	94	0.92	0.37 - 2.28
Child's average weekly servings of lunch meat	None	11	65	1.0	-
	Low	8	15	1.93	0.61 - 6.13
	High (1 + /wk)	15	79	0.72	0.28 - 1.87
Child ate cured meat	No	4	22	1.0	-
	Yes	35	137	2.49	0.29 - 21.3
Child's average weekly servings of cured meat	None/Low	20	73	1.0	-
	High (2+ /wk)	19	86	0.73	0.34 - 1.58
Child drank tap water or made drinks from tap water	No	1	18	1.0	-
	Yes	38	141	6.46	0.72 - 58.0
Child's average daily glasses of tap water or made drinks from tap water	None/Low	8	55	1.0	-
	Med. (3-4/da)	14	53	1.88	0.71 - 4.94
	High (5+ /da)	17	51	2.31	0.90 - 5.92
Child's average daily glasses of tap water or made drinks from tap water	None/Low	14	80	1.0	-
	High (4+ /da)	25	79	1.78	0.85 - 3.72
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Mother ate any fresh fruit or vegetables during pregnancy	No	1	0	-	-
	Yes	16	70	-	-
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	5	19	1.0	-
	Yes	12	51	0.93	0.29 - 2.96

Table 34: page 3 of 24

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother ate any hot dogs during pregnancy	No	5	15	1.0	-
	Yes	12	55	0.61	0.19 - 1.98
Mother ate hot dogs weekly during pregnancy	No	15	56	1.0	-
	Yes	2	14	0.55	0.12 - 2.52
Mother ate any bacon, ham, or sausage during pregnancy	No	2	11	1.0	-
	Yes	15	59	1.14	0.23 - 5.64
Mother ate bacon, ham, or sausage weekly during pregnancy	No	14	51	1.0	-
	Yes	3	19	0.53	0.14 - 2.08
Mother ate any lunch meat during pregnancy	No	2	11	1.0	-
	Yes	14	59	1.15	0.22 - 6.16
Mother ate lunch meat weekly during pregnancy	No	9	21	1.0	-
	Yes	7	49	0.30	0.10 - 0.93
Mother ate any cured meat during pregnancy	No	1	4	1.0	-
	Yes	16	66	0.41	0.02 - 7.10
Mother ate cured meat weekly during pregnancy	No	8	15	1.0	-
	Yes	9	55	0.24	0.07 - 0.85
Mother took multivitamin supplements for 5+ days during pregnancy	No	7	12	1.0	-
	Yes	10	58	0.20	0.05 - 0.86
Mother drank tap water or made drinks from tap water during pregnancy	No	1	5	1.0	-
	Yes	16	65	1.00	0.11 - 8.95
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	7	39	1.0	-
	High (>4/da)	10	31	1.74	0.60 - 5.06

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	6	28	1.0	-
	Med. (4-5/da)	4	17	1.08	0.26 - 4.59
	High (6+/da)	7	25	1.20	0.37 - 3.88
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Child ate fresh fruit or vegetables	No	3	9	1.0	-
	Yes	14	62	0.45	0.03 - 6.77
Child's average daily servings of fresh fruit or vegetable	None/Low	5	31	1.0	-
	High (1+/da)	12	40	2.36	0.61 - 9.06
Child ate hot dogs	No	4	25	1.0	-
	Yes	13	46	3.70	0.43 - 31.8
Child's average weekly servings of hot dogs	None	4	25	1.0	-
	Low	4	22	2.49	0.24 - 25.8
	High (1+/wk)	9	24	4.55	0.51 - 40.4
Child ate bacon, ham, or sausage	No	11	37	1.0	-
	Yes	6	34	0.40	0.10 - 1.54
Child's average weekly servings of bacon, ham, or sausage	None	11	37	1.0	-
	Low	2	19	0.26	0.05 - 1.45
	High (1+/wk)	4	15	0.61	0.12 - 3.02
Child ate lunch meat	No	11	50	1.0	-
	Yes	6	21	1.34	0.34 - 5.22
Child's average weekly servings of lunch meat	None	11	50	1.0	-
	Low	2	5	1.75	0.28 - 10.8
	High (1+/wk)	4	16	1.19	0.27 - 5.26

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child ate cured meat	No	4	22	1.0	-
	Yes	13	49	2.49	0.29 - 21.3
Child's average weekly servings of cured meat	None/Low	11	50	1.0	-
	High (2+/wk)	6	21	1.26	0.38 - 4.22
Child drank tap water or made drinks from tap water	No	1	13	1.0	-
	Yes	16	58	4.88	0.48 - 49.3
Child's average daily glasses of tap water or made drinks from tap water	None/Low	4	32	1.0	-
	Med. (3-4/da)	6	19	2.83	0.67 - 12.0
	High (5+/da)	7	20	2.82	0.71 - 11.3
Child's average daily glasses of tap water or made drinks from tap water	None/Low	7	42	1.0	-
	High (4+/da)	10	29	1.94	0.66 - 5.68

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Table 34b. Interview Study Analysis of Dietary Factors: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Mother ate any fresh fruit or vegetables during pregnancy	No	1	0	-	-
	Yes	20	85	-	-
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	6	24	1.0	-
	Yes	15	61	0.88	0.31 - 2.47
Mother ate any hot dogs during pregnancy	No	8	13	1.0	-
	Yes	13	72	0.30	0.10 - 0.90
Mother ate hot dogs weekly during pregnancy	No	20	72	1.0	-
	Yes	0	13	0	-
Mother ate any bacon, ham, or sausage during pregnancy	No	5	8	1.0	-
	Yes	16	78	0.27	0.06 - 1.18
Mother ate bacon, ham, or sausage weekly during pregnancy	No	18	54	1.0	-
	Yes	3	32	0.27	0.07 - 1.02
Mother ate any lunch meat during pregnancy	No	5	10	1.0	-
	Yes	16	76	0.34	0.09 - 1.32
Mother ate lunch meat weekly during pregnancy	No	11	34	1.0	-
	Yes	10	52	0.51	0.19 - 1.34
Mother ate any cured meat during pregnancy	No	2	2	1.0	-
	Yes	19	84	0.17	0.01 - 1.93

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother ate cured meat weekly during pregnancy	No	9	23	1.0	-
	Yes	12	63	0.41	0.15 - 1.13
Mother took multivitamin supplements for 5+ days during pregnancy	No	9	15	1.0	-
	Yes	12	71	0.23	0.07 - 0.73
Mother drank tap water or made drinks from tap water during pregnancy	No	1	1	1.0	-
	Yes	20	84	0.25	0.02 - 4.00
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	6	49	1.0	-
	High (>4/da)	15	36	3.43	1.18 - 10.0
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	3	30	1.0	-
	Med. (4-5/da)	9	31	3.07	0.72 - 13.0
	High (6+/da)	9	24	3.80	0.93 - 15.6
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Child ate fresh fruit or vegetables	No	0	0	-	-
	Yes	22	88	-	-
Child's average daily servings of fresh fruit or vegetables	None/Low	6	32	1.0	-
	High (1+/da)	16	56	1.53	0.54 - 4.30
Child ate hot dogs	No	2	9	1.0	-
	Yes	20	79	1.15	0.21 - 6.21
Child's average weekly servings of hot dogs	None	2	9	1.0	-
	Low	13	38	1.63	0.28 - 9.29
	High (1+/wk)	7	41	0.79	0.13 - 4.73

Table 34: page 8 of 24

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child ate bacon, ham, or sausage	No	5	15	1.0	-
	Yes	17	73	0.65	0.18 - 2.31
Child's average weekly servings of bacon, ham, or sausage	None	5	15	1.0	-
	Low	5	35	0.43	0.10 - 1.87
	High (1+ /wk)	12	38	0.89	0.24 - 4.08
Child ate lunch meat	No	5	28	1.0	-
	Yes	17	60	1.67	0.52 - 5.31
Child's average weekly servings of lunch meat	None	4	28	1.0	-
	Low	4	12	1.93	0.43 - 8.55
	High (1+ /wk)	13	48	1.60	0.48 - 5.28
Child ate cured meat	No	1	4	1.0	-
	Yes	21	84	1.00	0.10 - 10.1
Child's average weekly servings of cured meat	None/Low	8	38	1.0	-
	High (2+ /wk)	14	50	1.39	0.49 - 3.95
Child drank tap water or made drinks from tap water	No	0	8	-	-
	Yes	22	80	-	-
Child's average daily glasses of tap water or made drinks from tap water	None/Low	4	31	1.0	-
	Med. (3-4/da)	7	29	1.79	0.49 - 6.63
	High (5+ /da)	11	28	3.06	0.86 - 10.8
Child's average daily glasses of tap water or made drinks from tap water	None/Low	8	42	1.0	-
	High (4+ /da)	14	46	1.60	0.61 - 4.18

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Mother ate any fresh fruit or vegetables during pregnancy	No	1	0	-	-
	Yes	8	35	-	-
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	5	10	1.0	-
	Yes	4	25	0.33	0.07 - 1.53
Mother ate any hot dogs during pregnancy	No	4	6	1.0	-
	Yes	5	29	0.29	0.06 - 1.36
Mother ate hot dogs weekly during pregnancy	No	9	28	1.0	-
	Yes	0	7	0	-
Mother ate any bacon, ham, or sausage during pregnancy	No	2	4	1.0	-
	Yes	7	31	0.41	0.05 - 3.07
Mother ate bacon, ham, or sausage weekly during pregnancy	No	7	26	1.0	-
	Yes	2	9	0.82	0.14 - 4.77
Mother ate any lunch meat during pregnancy	No	2	5	1.0	-
	Yes	7	30	0.53	0.07 - 3.89
Mother ate lunch meat weekly during pregnancy	No	5	11	1.0	-
	Yes	4	24	0.37	0.08 - 1.64
Mother ate any cured meat during pregnancy	No	1	1	-	-
	Yes	8	34	-	-
Mother ate cured meat weekly during pregnancy	No	4	8	1.0	-
	Yes	5	27	0.36	0.07 - 1.71

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother took multivitamin supplements for 5+ days during pregnancy	No	5	4	1.0	-
	Yes	4	31	0.06	0.01 - 0.57
Mother drank tap water or made drinks from tap water during pregnancy	No	1	1	1.0	-
	Yes	8	34	0.25	0.02 - 4.00
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	4	21	1.0	-
	High (>4/da)	5	14	1.88	0.41 - 8.55
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	3	13	1.0	-
	Med. (4-5/da)	3	10	1.35	0.20 - 9.36
	High (6+/da)	3	12	1.07	0.19 - 5.98
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Child ate fresh fruit or vegetables	No	0	0	-	-
	Yes	9	36	-	-
Child's average daily servings of fresh fruit or vegetables	None/Low	1	11	1.0	-
	High (1+/da)	8	25	3.23	0.38 - 27.3
Child ate hot dogs	No	1	6	1.0	-
	Yes	8	30	1.72	0.16 - 18.8
Child's average weekly servings of hot dog	None	1	6	1.0	-
	Low	4	13	1.97	0.16 - 24.2
	High (1+/wk)	4	17	1.52	0.12 - 18.7
Child ate bacon, ham, or sausage	No	5	11	1.0	-
	Yes	4	25	0.35	0.08 - 1.61

Table 34: page 11 of 24

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child's average weekly servings of bacon, ham, or sausage	None	5	11	1.0	-
	Low	1	15	0.17	0.02 - 1.59
	High (1+ /wk)	3	10	0.70	0.11 - 4.67
Child ate lunch meat	No	4	17	1.0	-
	Yes	5	19	1.13	0.25 - 5.16
Child's average weekly servings of lunch meat	None	4	17	1.0	-
	Low	1	5	0.89	0.09 - 9.17
	High (1+ /wk)	4	14	1.21	0.24 - 6.05
Child ate cured meat	No	1	4	1.0	-
	Yes	8	32	1.00	0.10 - 10.1
Child's average weekly servings of cured meat	None/Low	6	20	1.0	-
	High (2+ /wk)	3	16	0.60	0.12 - 2.96
Child drank tap water or made drinks from tap water	No	0	4	-	-
	Yes	9	32	-	-
Child's average daily glasses of tap water or made drinks from tap water	None/Low	2	14	1.0	-
	Med. (3-4/da)	3	13	1.56	0.21 - 11.7
	High (5+ /da)	4	9	3.01	0.45 - 19.9
Child's average daily glasses of tap water or made drinks from tap water	None/Low	4	18	1.0	-
	High (4+ /da)	5	18	1.23	0.30 - 5.14

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Table 34c. Interview Study Analysis of Dietary Factors: Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Mother ate any fresh fruit or vegetables during pregnancy	No	0	1	-	-
	Yes	17	69	-	-
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	3	13	1.0	-
	Yes	14	57	1.10	0.28 - 4.37
Mother ate any hot dogs during pregnancy	No	3	16	1.0	-
	Yes	14	54	1.27	0.32 - 5.14
Mother ate hot dogs weekly during pregnancy	No	14	50	1.0	-
	Yes	3	20	0.54	0.14 - 1.99
Mother ate any bacon, ham, or sausage during pregnancy	No	0	10	-	-
	Yes	17	60	-	-
Mother ate bacon, ham, or sausage weekly during pregnancy	No	15	39	1.0	-
	Yes	2	31	0.15	0.03 - 0.72
Mother ate any lunch meat during pregnancy	No	0	9	-	-
	Yes	16	61	-	-
Mother ate lunch meat weekly during pregnancy	No	8	20	1.0	-
	Yes	8	50	0.38	0.13 - 1.10
Mother ate any cured meat during pregnancy	No	0	4	-	-
	Yes	17	66	-	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother ate cured meat weekly during pregnancy	No	7	12	1.0	-
	Yes	10	58	0.27	0.08 - 0.88
Mother took multivitamin supplements for 5+ days during pregnancy	No	4	13	1.0	-
	Yes	13	57	0.76	0.20 - 2.96
Mother drank tap water or made drinks from tap water during pregnancy	No	0	6	-	-
	Yes	17	64	-	-
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	9	31	1.0	-
	High (>4/da)	8	39	0.72	0.26 - 1.97
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	8	25	1.0	-
	Med. (4-5/da)	2	18	0.35	0.07 - 1.80
	High (6+/da)	7	27	0.82	0.28 - 2.46
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Child ate fresh fruit or vegetables	No	3	10	1.0	-
	Yes	14	61	0.72	0.07 - 6.82
Child's average daily servings of fresh fruit or vegetables	None/Low	8	32	1.0	-
	High (1+/da)	9	39	0.98	0.32 - 3.01
Child ate hot dogs	No	3	20	-	-
	Yes	14	51	-	-
Child's average weekly servings of hot dogs	None	3	20	-	-
	Low	6	25	-	-
	High (1+/wk)	8	26	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child ate bacon, ham, or sausage	No	6	29	1.0	-
	Yes	11	42	1.59	0.19 - 13.3
Child's average weekly servings of bacon, ham, or sausage	None	6	29	1.0	-
	Low	9	11	6.25	0.35 - 122
	High (1+ /wk)	2	31	0.65	0.04 - 11.7
Child ate lunch meat	No	11	37	1.0	-
	Yes	6	34	0.20	0.03 - 1.22
Child's average weekly servings of lunch meat	None	11	37	1.0	-
	Low	4	3	2.85	0.21 - 38.1
	High (1+ /wk)	2	31	0.08	0.01 - 0.76
Child ate cured meat	No	3	18	-	-
	Yes	14	53	-	-
Child's average weekly servings of cured meat	None/Low	12	35	1.0	-
	High (2+ /wk)	5	36	0.30	0.09 - 1.01
Child drank tap water or made drinks from tap water	No	1	10	1.0	-
	Yes	16	61	3.69	0.31 - 43.3
Child's average daily glasses of tap water or made drinks from tap water	None/Low	4	24	1.0	-
	Med. (3-4/da)	7	24	2.05	0.47 - 8.95
	High (5+ /da)	6	23	1.60	0.38 - 6.72
Child's average daily glasses of tap water or made drinks from tap water	None/Low	6	38	1.0	-
	High (4+ /da)	11	33	2.07	0.67 - 6.45

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Mother ate any fresh fruit or vegetables during pregnancy	No	0	0	-	-
	Yes	8	35	-	-
Mother ate daily fresh fruit or vegetables during pregnancy	No	0	9	-	-
	Yes	8	26	-	-
Mother ate any hot dogs during pregnancy	No	1	9	1.0	-
	Yes	7	26	2.01	0.22 - 18.5
Mother ate hot dogs weekly during pregnancy	No	6	28	1.0	-
	Yes	2	7	1.16	0.22 - 6.23
Mother ate any bacon, ham, or sausage during pregnancy	No	0	7	-	-
	Yes	8	28	-	-
Mother ate bacon, ham, or sausage weekly during pregnancy	No	7	25	1.0	-
	Yes	1	10	0.31	0.03 - 2.83
Mother ate any lunch meat during pregnancy	No	0	6	-	-
	Yes	7	29	-	-
Mother ate lunch meat weekly during pregnancy	No	4	10	1.0	-
	Yes	3	25	0.23	0.04 - 1.33
Mother ate any cured meat during pregnancy	No	0	3	-	-
	Yes	8	32	-	-
Mother ate cured meat weekly during pregnancy	No	4	7	1.0	-
	Yes	4	28	0.12	0.01 - 1.19

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother took multivitamin supplements for 5+ days during pregnancy	No	2	8	1.0	-
	Yes	6	27	0.95	0.12 - 7.39
Mother drank tap water or made drinks from tap water during pregnancy	No	0	4	-	-
	Yes	8	31	-	-
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	3	18	1.0	-
	High (>4/da)	5	17	1.62	0.36 - 7.24
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	3	15	1.0	-
	Med. (4-5/da)	1	7	0.76	0.07 - 7.98
	High (6+/da)	4	13	1.34	0.27 - 6.66
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Child ate fresh fruit or vegetables	No	3	9	1.0	-
	Yes	5	26	0.45	0.03 - 6.77
Child's average daily servings of fresh fruit or vegetables	None/Low	4	20	1.0	-
	High (1+/da)	4	15	1.82	0.30 - 11.1
Child ate hot dogs	No	3	19	-	-
	Yes	5	16	-	-
Child's average weekly servings of hot dogs	None	3	19	-	-
	Low	0	9	-	-
	High (1+/wk)	5	7	-	-
Child ate bacon, ham, or sausage	No	6	26	1.0	-
	Yes	2	9	0.65	0.03 - 12.4

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child's average weekly servings of bacon, ham, or sausage	None	6	26	1.0	-
	Low	1	4	0.71	0.02 - 24.7
	High (1+ /wk)	1	5	0.62	0.03 - 14.8
Child ate lunch meat	No	7	33	1.0	-
	Yes	1	2	2.45	0.14 - 42.6
Child's average weekly servings of lunch meat	None	7	33	1.0	-
	Low	1	0	-	-
	High (1+ /wk)	0	2	0	-
Child ate cured meat	No	3	18	1.0	-
	Yes	5	17	0	-
Child's average weekly servings of cured meat	None/Low	5	30	1.0	-
	High (2+ /wk)	3	5	3.70	0.56 - 24.3
Child drank tap water or made drinks from tap water	No	1	9	1.0	-
	Yes	7	26	3.31	0.26 - 42.1
Child's average daily servings of tap water or made drinks from tap water	None/Low	2	18	1.0	-
	Med. (3-4/da)	3	6	5.52	0.72 - 42.6
	High (5+ /da)	3	11	2.23	0.27 - 18.2
Child's average daily glasses of tap water or made drinks from tap water	None/Low	3	24	1.0	-
	High (4+ /da)	5	11	3.26	0.68 - 15.5

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Table 34d. Interview Study Analysis of Dietary Factors: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Mother ate any fresh fruit or vegetables during pregnancy	No	0	1	-	-
	Yes	12	50	-	-
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	3	8	1.0	-
	Yes	9	43	0.55	0.12 - 2.59
Mother ate any hot dogs during pregnancy	No	2	11	1.0	-
	Yes	10	40	1.22	0.21 - 7.05
Mother ate hot dogs weekly during pregnancy	No	9	36	1.0	-
	Yes	3	15	0.75	0.19 - 3.01
Mother ate any bacon, ham, or sausage during pregnancy	No	0	7	-	-
	Yes	12	44	-	-
Mother ate bacon, ham, or sausage weekly during pregnancy	No	11	24	1.0	-
	Yes	1	27	0.08	0.01 - 0.65
Mother ate any lunch meat during pregnancy	No	0	6	-	-
	Yes	12	45	-	-
Mother ate lunch meat weekly during pregnancy	No	6	14	1.0	-
	Yes	6	37	0.37	0.10 - 1.28
Mother ate any cured meat during pregnancy	No	0	3	-	-
	Yes	12	48	-	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother ate cured meat weekly during pregnancy	No	4	8	1.0	-
	Yes	8	43	0.33	0.08 - 1.35
Mother took multivitamin supplements for 5+ days during pregnancy	No	2	6	1.0	-
	Yes	10	45	0.65	0.11 - 3.75
Mother drank tap water or made drinks from tap water during pregnancy	No	0	4	-	-
	Yes	12	47	-	-
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	7	22	1.0	-
	High (>4/da)	5	29	0.58	0.17 - 1.92
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	6	16	1.0	-
	Med. (4-5/da)	2	15	0.37	0.07 - 1.99
	High (6+/da)	4	20	0.57	0.15 - 2.19
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Child ate fresh fruit or vegetables	No	0	2	-	-
	Yes	12	50	-	-
Child's average daily servings of fresh fruit or vegetables	None/Low	5	18	1.0	-
	High (1+/da)	7	34	0.78	0.22 - 2.72
Child ate hot dogs	No	0	6	-	-
	Yes	12	46	-	-
Child's average weekly servings of hot dogs	None	0	6	-	-
	Low	6	22	-	-
	High (1+/wk)	6	24	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child ate bacon, ham, or sausage	No	2	14	1.0	-
	Yes	10	38	2.11	0.13 - 33.5
Child's average weekly servings of bacon, ham, or sausage	None	2	14	1.0	-
	Low	9	8	13.3	0.20 - 885
	High (1+ /wk)	1	30	0.60	0.01 - 39.0
Child ate lunch meat	No	6	19	1.0	-
	Yes	6	33	0.21	0.03 - 1.31
Child's average weekly servings of lunch meat	None	6	19	1.0	-
	Low	4	3	2.87	0.21 - 38.4
	High (1+ /wk)	2	30	0.08	0.01 - 0.79
Child ate cured meat	No	0	5	-	-
	Yes	12	47	-	-
Child's average weekly servings of cured meat	None/Low	8	18	1.0	-
	High (2+ /wk)	4	34	0.22	0.06 - 0.79
Child drank tap water or made drinks from tap water	No	0	3	-	-
	Yes	12	49	-	-
Child's average daily glasses of tap water or made drinks from tap water	None/Low	3	13	1.0	-
	Med. (3-4/da)	5	23	0.95	0.18 - 4.94
	High (5+ /da)	4	16	1.06	0.21 - 5.40
Child's average daily glasses of tap water or made drinks from tap water	None/Low	5	26	1.0	-
	High (4+ /da)	7	26	1.31	0.35 - 4.91

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Mother ate any fresh fruit or vegetables during pregnancy	No	0	0	-	-
	Yes	3	16	-	-
Mother ate daily servings of fresh fruit or vegetables during pregnancy	No	0	4	-	-
	Yes	3	12	-	-
Mother ate any hot dogs during pregnancy	No	0	4	-	-
	Yes	3	12	-	-
Mother ate hot dogs weekly during pregnancy	No	1	14	1.0	-
	Yes	2	2	6.00	0.52 - 69.5
Mother ate any bacon, ham, or sausage during pregnancy	No	0	4	-	-
	Yes	3	12	-	-
Mother ate bacon, ham, or sausage weekly during pregnancy	No	3	10	1.0	-
	Yes	0	6	0	-
Mother ate any lunch meat during pregnancy	No	0	3	-	-
	Yes	3	13	-	-
Mother ate lunch meat weekly during pregnancy	No	2	4	-	-
	Yes	1	12	-	-
Mother ate any cured meat during pregnancy	No	0	2	-	-
	Yes	3	14	-	-
Mother ate cured meat weekly during pregnancy	No	1	3	-	-
	Yes	2	13	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother took multivitamin supplements for 5+ days during pregnancy	No	0	1	-	-
	Yes	3	15	-	-
Mother drank tap water or made drinks from tap water during pregnancy	No	0	2	-	-
	Yes	3	14	-	-
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	1	9	1.0	-
	High (>4/da)	2	7	2.35	0.21 - 26.8
Mother's average daily glasses of tap water or drinks made from tap water	None/Low	1	6	1.0	-
	Med. (4-5/da)	1	4	1.27	0.07 - 22.3
	High (6+/da)	1	6	0.84	0.05 - 13.7
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Child ate fresh fruit or vegetables	No	0	1	-	-
	Yes	3	15	-	-
Child's average daily servings of fresh fruit or vegetables	None/Low	1	6	1.0	-
	High (1+/da)	2	10	1.38	0.11 - 17.4
Child ate hot dogs	No	0	5	-	-
	Yes	3	11	-	-
Child's average weekly servings of hot dogs	None	0	5	-	-
	Low	0	6	-	-
	High(1+/wk)	3	5	-	-
Child ate bacon, ham, or sausage	No	2	11	-	-
	Yes	1	5	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child's average weekly servings of bacon, ham, or sausage	None	2	11	1.0	-
	Low	1	1	-	-
	High (1+ /wk)	0	4	0	-
Child ate lunch meat	No	2	15	1.0	-
	Yes	1	1	-	-
Child's average weekly servings of lunch meat	None	2	15	1.0	-
	Low	1	0	-	-
	High (1+ /wk)	0	1	0	-
Child ate cured meat	No	0	5	-	-
	Yes	3	11	-	-
Child's average weekly servings of cured meat	None/Low	1	13	1.0	-
	High (2+ /wk)	2	3	5.06	0.40 - 64.0
Child drank tap water or made drinks from tap water	No	0	2	-	-
	Yes	3	14	-	-
Child's average daily glasses of tap water or made drinks from tap water	None/Low	1	7	1.0	-
	Med. (3-4/da)	1	7	1.79	0.11 - 30.3
	High (5+ /da)	1	4	1.79	0.11 - 30.3
Child's average daily glasses of tap water or made drinks from tap water	None/Low	2	12	1.0	-
	High (4+ /da)	1	4	1.40	0.12 - 16.4

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Table 35. Interview Study Exposure to Tobacco Smoke and Alcohol

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Prenatal Exposure				
Mother smoked during pregnancy:				
Yes	12	30.0	46	28.9
No	27	67.5	111	69.8
Unknown	1	2.5	2	1.3
<u>Among mothers who smoked during pregnancy:</u>				
<i>Average number of smoking months</i>	7.8		8.2	
<i>Average number of cigarettes per day</i>	12.1		13.9	
<i>Average total cigarettes</i>	2800		3640	
Any regular smoking by anyone else in household during pregnancy:				
Yes	12	30.0	65	40.9
No	26	65.0	89	55.9
Unknown	2	5.0	5	3.1
<u>Anyone else who smoked in the household during pregnancy:</u>				
<i>Average number of cigarettes per day</i>	13.6		14.3	
<i>Average total cigarettes</i>	3747		3838	
Mother consumed any alcohol during pregnancy:				
Yes	8	20.0	50	31.5
No	30	75.0	106	66.7
Unknown	2	5.0	3	1.9

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
<u>Among mothers who consumed alcohol during pregnancy:</u>				
<i>Mother drank wine</i>	7		40	
<i>Average servings of wine per month</i>	1.8		1.4	
<i>Mother drank beer</i>	0		17	
<i>Average servings of beer per month</i>	0		1.8	
<i>Mother drank mixed drinks</i>	2		11	
<i>Average servings of mixed drinks per month</i>	0.7		1.0	
<i>Average drinks per month</i>	1.7		2.0	
<i>Average number of drinks during pregnancy</i>	16		18	
<u>Ever had 5 or more drinks at one sitting:</u>				
Yes	0	0.0	0	0.0
No	8	100.0	50	100.0
Unknown	0	0.0	0	0.0
Postnatal Exposure				
Child's exposure to tobacco smoke in the home:				
Yes	19	47.5	81	50.9
No	20	50.0	78	49.1
Unknown	1	2.5	0	0.0
<u>Among children with domestic smoke exposure:</u>				
<i>Average daily number of cigarettes smoked in the home</i>	16.0		18.8	

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Table 36a. Interview Study Analysis of Exposure to Tobacco Smoke and Alcohol: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Mother smoked during pregnancy	No	27	111	1.0	-
	Yes	12	46	1.04	0.48 - 2.24
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	27	111	1.0	-
	Low	7	22	1.26	0.50 - 3.15
	High (> ½pk/da)	5	22	0.93	0.31 - 2.81
Any regular smoking by anyone else in household during pregnancy	No	26	89	1.0	-
	Yes	12	65	0.58	0.27 - 1.26
Average daily number of cigarettes smoked in household by anyone else during pregnancy	None	26	89	1.0	-
	Low	7	34	0.64	0.25 - 1.64
	High (> ½pk/da)	5	31	0.51	0.18 - 1.46
Mother consumed any alcohol during pregnancy	No	30	106	1.0	-
	Yes	8	50	0.54	0.23 - 1.26
Mother consumed any wine during pregnancy	No	31	115	1.0	-
	Yes	7	40	0.62	0.25 - 1.51
Mother consumed any mixed drinks during pregnancy	No	36	144	1.0	-
	Yes	2	11	0.70	0.14 - 3.44
Number of alcoholic drinks the mother consumed during pregnancy	None	30	106	1.0	-
	Low	6	26	0.78	0.30 - 2.03
	High (>9)	2	23	0.28	0.06 - 1.27

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Child's exposure to tobacco smoke in the home	No	20	78	1.0	-
	Yes	19	81	0.85	0.41 - 1.76
Average daily number of cigarettes smoked in the child's home	None	20	78	1.0	-
	Low	11	45	0.89	0.39 - 2.02
	High (1 + pk/da)	8	36	0.80	0.31 - 2.06
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Mother smoked during pregnancy	No	13	51	1.0	-
	Yes	4	19	0.77	0.22 - 2.62
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	13	51	1.0	-
	Low	3	11	0.97	0.25 - 3.82
	High (> ½pk/da)	1	8	0.46	0.05 - 3.95
Any regular smoking by anyone else in household during pregnancy	No	14	44	1.0	-
	Yes	3	25	0.32	0.08 - 1.27
Average number of cigarettes smoked in household by anyone else during pregnancy	None	14	44	1.0	-
	Low	2	14	0.40	0.08 - 1.94
	High (> ½pk/da)	1	11	0.24	0.03 - 2.03
Mother consumed any alcohol during pregnancy	No	13	52	1.0	-
	Yes	4	18	0.85	0.25 - 2.82
Mother consumed any wine during pregnancy	No	13	55	1.0	-
	Yes	4	15	1.07	0.30 - 3.78

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother consumed any mixed drinks during pregnancy	No	16	69	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Number of alcoholic drinks the mother consumed during pregnancy	None	13	52	1.0	-
	Low	3	9	1.24	0.31 - 4.97
	High (>9)	1	9	0.43	0.05 - 3.63
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Child's exposure to tobacco smoke in the home	No	12	41	1.0	-
	Yes	5	30	0.50	0.16 - 1.58
Average daily number of cigarettes smoked in the home	None	12	41	1.0	-
	Low	3	19	0.49	0.13 - 1.88
	High (1+ pk/da)	2	11	0.52	0.10 - 2.69

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Table 36b. Interview Study Analysis of Exposure to Tobacco Smoke and Alcohol: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Mother smoked during pregnancy	No	14	63	1.0	-
	Yes	8	24	1.56	0.54 - 4.52
Average daily number of cigarettes smoked by mother during pregnancy	None	14	63	1.0	-
	Low	5	9	2.61	0.72 - 9.54
	High (> ½pk/da)	3	13	1.21	0.26 - 5.56
Any regular smoking by anyone else in household during pregnancy	No	14	56	1.0	-
	Yes	7	29	0.93	0.33 - 2.63
Average daily cigarettes smoked in household by anyone else during pregnancy	None	14	56	1.0	-
	Low	4	12	1.28	0.34 - 4.77
	High (> ½pk/da)	3	17	0.70	0.18 - 2.72
Mother consumed any alcohol during pregnancy	No	15	57	1.0	-
	Yes	6	29	0.75	0.27 - 2.06
Mother consumed any wine during pregnancy	No	16	58	1.0	-
	Yes	5	27	0.65	0.22 - 1.90
Mother consumed any mixed drinks during pregnancy	No	19	81	1.0	-
	Yes	2	4	2.67	0.33 - 21.6
Number of alcoholic drinks the mother consumed during pregnancy	None	15	57	1.0	-
	Low	4	15	0.98	0.30 - 3.18
	High (>9)	2	13	0.52	0.10 - 2.67

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Child's exposure to tobacco smoke in the home	No	11	45	1.0	-
	Yes	11	43	1.05	0.40 - 2.74
Average daily number of cigarettes smoked in the home	None	11	45	1.0	-
	Low	6	24	1.03	0.33 - 3.18
	High (1 + pk/da)	5	19	1.08	0.33 - 3.53
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Mother smoked during pregnancy	No	6	26	1.0	-
	Yes	3	9	1.40	0.29 - 6.79
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	6	26	1.0	-
	Low	2	5	1.69	0.26 - 11.1
	High (> ½pk/da)	1	4	1.07	0.11 - 10.2
Any regular smoking by anyone else in household during pregnancy	No	7	24	1.0	-
	Yes	2	11	0.58	0.10 - 3.32
Average number of cigarettes smoked in household by anyone else during pregnancy	None	7	24	1.0	-
	Low	1	4	0.78	0.08 - 7.36
	High (> ½pk/da)	1	7	0.46	0.05 - 4.37
Mother consumed any alcohol during pregnancy	No	6	24	1.0	-
	Yes	3	11	1.09	0.26 - 4.62
Mother consumed any wine during pregnancy	No	6	24	1.0	-
	Yes	3	11	1.09	0.26 - 4.62

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother consumed any mixed drinks during pregnancy	No	8	35	1.0	-
	Yes	1	0	-	-
Number of alcoholic drinks the mother consumed during pregnancy	None	6	24	1.0	-
	Low	2	5	1.52	0.27 - 8.65
	High (>9)	1	6	0.67	0.07 - 6.35
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Child's exposure to tobacco smoke in the home	No	5	21	1.0	-
	Yes	4	15	1.13	0.25 - 5.10
Average daily number of cigarettes smoked in the home	None	5	21	1.0	-
	Low	2	10	0.88	0.15 - 5.31
	High (1+ pk/da)	2	5	1.59	0.25 - 10.3

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Table 36c. Interview Study Analysis of Exposure to Tobacco Smoke and Alcohol: Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Mother smoked during pregnancy	No	13	48	1.0	-
	Yes	4	22	0.66	0.20 - 2.14
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	13	48	1.0	-
	Low	2	13	0.57	0.12 - 2.64
	High (> ½pk/da)	2	9	0.79	0.15 - 4.10
Any regular smoking by anyone else in household during pregnancy	No	12	33	1.0	-
	Yes	5	36	0.33	0.10 - 1.10
Average number of cigarettes smoked in household by anyone else during pregnancy	None	12	33	1.0	-
	Low	3	22	0.33	0.08 - 1.34
	High (> ½pk/da)	2	14	0.33	0.06 - 1.73
Mother consumed any alcohol during pregnancy	No	15	49	1.0	-
	Yes	2	21	0.28	0.06 - 1.39
Mother consumed any wine during pregnancy	No	15	57	1.0	-
	Yes	2	13	0.54	0.11 - 2.80
Mother consumed any mixed drinks during pregnancy	No	17	63	1.0	-
	Yes	0	7	0	-
Number of alcoholic drinks the mother consumed during pregnancy	None	15	49	1.0	-
	Low	2	11	0.51	0.10 - 2.64
	High (>9)	0	10	0	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Child's exposure to tobacco smoke in the home	Yes	8	38	1.0	-
	No	9	33	0.65	0.21 - 1.98
Average daily number of cigarettes smoked in the home	None	9	33	1.0	-
	Low	5	21	0.74	0.23 - 2.41
	High (1+ pk/da)	3	17	0.49	0.10 - 2.40
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Mother smoked during pregnancy	No	7	25	1.0	-
	Yes	1	10	0.32	0.04 - 2.90
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	7	25	1.0	-
	Low	1	6	0.53	0.06 - 4.61
	High (> 1/2pk/da)	0	4	0	-
Any regular smoking by anyone else in household during pregnancy	No	7	20	1.0	-
	Yes	1	14	0.16	0.02 - 1.52
Average daily number of cigarettes smoked in household by anyone else during pregnancy	None	7	20	1.0	-
	Low	1	10	0.23	0.03 - 2.12
	High (1+ pk/da)	0	4	0	-
Mother consumed any alcohol during pregnancy	No	7	28	1.0	-
	Yes	1	7	0.51	0.05 - 4.93
Mother consumed any wine during pregnancy	No	7	31	1.0	-
	Yes	1	4	1.00	0.07 - 13.7

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother consumed any mixed drinks during pregnancy	No	8	34	1.0	-
	Yes	0	1	0	-
Number of alcoholic drinks the mother consumed during pregnancy	None	7	28	1.0	-
	Low	1	4	0.87	0.08 - 9.22
	High (>9)	0	3	0	-
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Child's exposure to tobacco smoke in the home	No	7	20	1.0	-
	Yes	1	15	0.15	0.02 - 1.36
Average daily number of cigarettes smoke in the home	None	7	20	1.0	-
	Low	1	9	0.27	0.03 - 2.36
	High (1+ pk/da)	0	6	0	-

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Table 36d. Interview Study Analysis of Exposure to Tobacco Smoke and Alcohol: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Mother smoked during pregnancy	No	8	34	1.0	-
	Yes	4	17	0.90	0.26 - 3.17
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	8	34	1.0	-
	Low	2	10	0.78	0.16 - 3.82
	High (> ½pk/da)	2	7	1.12	0.19 - 6.51
Any regular smoking by anyone else in household during pregnancy	No	7	22	1.0	-
	Yes	5	28	0.49	0.13 - 1.80
Average daily number of cigarettes smoked in household by anyone else during pregnancy	None	7	22	1.0	-
	Low	3	16	0.51	0.11 - 2.32
	High (> ½pk/da)	2	12	0.45	0.08 - 2.54
Mother consumed any alcohol during pregnancy	No	10	33	1.0	-
	Yes	2	18	0.32	0.06 - 1.69
Mother consumed any wine during pregnancy	No	10	39	1.0	-
	Yes	2	12	0.59	0.11 - 3.15
Mother consumed any mixed drinks during pregnancy	No	12	45	1.0	-
	Yes	0	6	0	-
Number of alcoholic drinks the mother consumed during pregnancy	None	10	33	1.0	-
	Low	2	9	0.61	0.11 - 3.39
	High (>9)	0	9	0	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Child's exposure to tobacco smoke in the home	No	4	23	1.0	-
	Yes	8	29	1.30	0.35 - 4.80
Average daily number of cigarettes smoked in the home	None	4	23	1.0	-
	Low	5	15	1.45	0.37 - 5.67
	High (1+ pk/da)	3	14	1.00	0.17 - 5.69
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Mother smoked during pregnancy	No	2	11	1.0	-
	Yes	1	5	0.72	0.06 - 9.12
Average daily number of cigarettes smoked by mother when smoking during pregnancy	None	2	11	1.0	-
	Low	1	3	1.11	0.10 - 12.8
	High (> ½pk/da)	0	2	0	-
Any regular smoking by anyone else in household during pregnancy	No	2	9	1.0	-
	Yes	1	6	0.47	0.03 - 7.50
Average daily number of cigarettes smoked in household by anyone else during pregnancy	None	2	9	1.0	-
	Low	1	4	0.64	0.05 - 8.51
	High (> ½pk/da)	0	2	0	-
Mother consumed any alcohol during pregnancy	No	2	12	1.0	-
	Yes	1	4	1.00	0.07 - 13.7
Mother consumed any wine during pregnancy	No	2	13	1.0	-
	Yes	1	3	1.63	0.08 - 34.6

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother consumed any mixed drinks during pregnancy	No	3	16	1.0	-
	Yes	0	0	-	-
Number of alcoholic drinks the mother consumed during pregnancy	None	2	12	1.0	-
	Low	1	2	2.00	0.11 - 37.8
	High (>9)	0	2	0	-
Postnatal Exposures: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Child's exposure to tobacco smoke in the home	No	2	10	1.0	-
	Yes	1	6	0.56	0.05 - 6.44
Average daily number of cigarettes smoked in the home	None	2	10	1.0	-
	Low	1	3	1.03	0.09 - 11.6
	High (1+ pk/da)	0	3	0	-

Table 37. Interview Study Household-related Exposures: Chemicals, Animals and Electromagnetic Fields (EMFs)

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Prenatal Exposure				
Indoor use of pesticides during pregnancy:				
Yes	4	10.0	20	12.6
No	34	85.0	134	84.3
Unknown	2	5.0	5	3.1
<u>Among households using indoor pesticides, frequency of treatment:</u>				
Monthly	2	50.0	3	15.0
Less than monthly	2	50.0	17	85.0
<u>Mother applied some or all of these treatments</u>				
	2	50.0	2	10.0
Yard or garden use of pesticides or herbicides during pregnancy:				
Yes	14	35.0	58	36.5
No	23	57.5	94	59.1
Unknown	3	7.5	7	4.4
<u>Among households using outdoor pesticides or herbicides, frequency of treatment:</u>				
Monthly	4	28.6	3	5.2
Less than monthly	10	71.4	52	89.7
Unknown	0	0.0	3	5.2
<u>Mother applied some or all of these treatments</u>				
	0	0.0	3	5.2
Use of pest strips at home during pregnancy:				
Yes	1	2.5	7	4.4
No	37	92.5	146	91.8
Unknown	2	5.0	6	3.8

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Use of flea collars on pets at home during pregnancy:				
Yes	12	30.0	52	32.7
No	26	65.0	102	64.2
Unknown	2	5.0	5	3.1
Use of oil based paint, paint thinners, brush cleaners or furniture strippers at home during pregnancy:				
Yes	9	22.5	37	23.3
No	27	67.5	118	74.2
Unknown	4	10.0	4	2.5
<u>Among households using paints or solvents, frequency of use:</u>				
Weekly or more	0	0.0	2	5.4
Monthly	1	11.1	1	2.7
Less than monthly	8	88.9	34	91.9
Car repair at home during pregnancy:				
Yes	10	25.0	28	17.6
No	28	70.0	128	80.5
Unknown	2	5.0	3	1.9
<u>Among households repairing cars, frequency of activity:</u>				
Weekly or more	0	0.0	8	28.6
Monthly	2	20.0	2	7.1
Less than monthly	8	80.0	18	64.3
Use of fingernail polish or remover at home during pregnancy:				
Yes	23	57.5	99	62.3
No	15	37.5	57	35.9
Unknown	2	5.0	3	1.9
<u>Among households using nail polish or remover, frequency of use:</u>				
Weekly or more	6	26.1	34	34.3
Monthly	10	43.5	33	33.3
Less than monthly	7	30.4	32	32.3

Table 37: page 2 of 6

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Use of moth balls or moth crystals at home during pregnancy:				
Yes	6	15.0	34	21.4
No	32	80.0	121	76.1
Unknown	2	5.0	4	2.5
Use of wood cleaner or furniture polish at home during pregnancy:				
Yes	36	90.0	141	88.7
No	2	5.0	15	9.4
Unknown	2	5.0	3	1.9
<u>Among households using wood cleaner or furniture polish, frequency of use:</u>				
Weekly or more	24	66.7	109	77.3
Monthly	11	30.6	24	17.0
Less than monthly	1	2.8	8	5.7
Mother regularly used electric blanket or electric mattress pad during pregnancy:				
Yes	1	2.5	9	5.7
No	37	92.5	146	91.8
Unknown	2	5.0	4	2.5
Mother regularly used heated water bed during pregnancy:				
Yes	2	5.0	5	3.1
No	36	90.0	151	95.0
Unknown	2	5.0	3	1.9
Postnatal Exposure				
Indoor use of pesticides during childhood:				
Yes	9	22.5	39	24.5
No	30	75.0	120	75.5
Unknown	1	2.5	0	0
<u>Among indoor pesticide users, average annual frequency of use</u>	3.1		2.8	

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Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
<u>Applicator of indoor pesticides:</u>				
Informant	2	22.2	7	17.9
Professionals	5	55.6	20	51.3
Study Subject	0	0.0	0	0.0
Other	1	11.1	9	23.1
Multiple	1	11.1	3	7.7
Yard or garden use of pesticides or herbicides during childhood:				
Yes	20	50.0	105	66.0
No	18	45.0	53	33.3
Unknown	2	5.0	1	0.6
<u>Among outdoor yard or garden treatment users, average annual frequency of use</u>	3.4		3.6	
<u>Applicator of outdoor yard or garden treatment:</u>				
Informant	0	0.0	5	4.8
Professionals	4	20.0	25	23.8
Study Subject	0	0.0	0	0.0
Other	12	60.0	64	60.9
Multiple	4	20.0	11	10.5
Use of pest strips at home during childhood:				
Yes	1	2.5	11	6.9
No	38	95.0	148	93.1
Unknown	1	2.5	0	0.0
Use of oil based paints, paint thinners, brush cleaners, or finish strippers at home during childhood:				
Yes	10	25.0	65	40.9
No	29	72.5	94	59.1
Unknown	1	2.5	0	0.0
<u>Among households using paints or solvents, annual frequency of use</u>	1.5		8.2	

Table 37: page 4 of 6

Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Car repair at home during childhood:				
Yes	14	35.0	42	26.4
No	25	62.5	117	73.6
Unknown	1	2.5	0	0.0
<u>Among households repairing cars, annual frequency of activity</u>	10.4		23.8	
Use of fingernail polish or remover at home during childhood:				
Yes	27	67.5	116	73.0
No	12	30.0	43	27.0
Unknown	1	2.5	0	0.0
<u>Among households using nail polish or remover, annual frequency of use</u>	22.1		32.4	
Use of moth balls or crystals at the home during childhood:				
Yes	8	20.0	28	17.6
No	31	77.5	130	81.8
Unknown	1	2.5	1	0.6
Use of wood cleaner or furniture polish at home during childhood:				
Yes	37	92.5	150	94.3
No	2	5.0	9	5.7
Unknown	1	2.5	0	0
<u>Among households using wood cleaner or furniture polish, annual frequency of use</u>	47.7		56.1	
Child ever lived on a farm:				
Yes	0	0	3	1.9
No	39	97.5	156	98.1
Unknown	1	2.5	0	0.0
Child was regularly around cows, pigs, or horses:				
Yes	0	0	7	4.4
No	39	97.5	152	95.6
Unknown	1	2.5	0	0.0

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Characteristic	Cases (n = 40)		Controls (n = 159)	
	Number	Percent	Number	Percent
Child was regularly around chickens, geese or ducks:				
Yes	1	2.5	8	5.0
No	38	95.0	151	95.0
Unknown	1	2.5	0	0.0
Child lived with a pet:				
Yes	29	72.5	119	74.8
No	10	25.0	40	25.2
Unknown	1	2.5	0	0.0
Child lived with a dog:				
Yes	24	60.0	90	56.6
No	15	37.5	69	43.4
Unknown	1	2.5	0	0.0
Child lived with a cat:				
Yes	8	20.0	54	34.0
No	31	77.5	105	66.0
Unknown	1	2.5	0	0.0
Child lived with a pet other than a dog or cat:				
Yes	12	30.0	60	37.7
No	27	67.5	99	62.3
Unknown	1	2.5	0	0.0
Child lived with a household pet who used flea collars:				
Yes	19	47.5	81	50.9
No	20	50.0	76	47.8
Unknown	1	2.5	2	1.3
Child regularly used an electric blanket or mattress pad:				
Yes	2	5.0	4	2.5
No	37	92.5	155	97.5
Unknown	1	2.5	0	0.0
Child regularly used a heated water bed:				
Yes	3	7.5	2	1.3
No	36	90.0	157	98.7
Unknown	1	2.5	0	0.0

Table 37: page 6 of 6

Table 38a. Interview Study Analysis of Household-related Exposures: Chemicals, Animals, and EMFs: Leukemia and Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Pesticides used indoors at home during pregnancy	No	34	134	1.0	-
	Yes	4	20	0.70	0.22 - 2.25
Pesticides or herbicides used outdoors during pregnancy	No	23	94	1.0	-
	Yes	14	58	0.90	0.43 - 1.90
Pest strips used at home during pregnancy	No	37	146	1.0	-
	Yes	1	7	0.67	0.08 - 5.54
Flea collars used on pets at home during pregnancy	No	26	102	1.0	-
	Yes	12	52	0.79	0.35 - 1.74
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	27	118	1.0	-
	Yes	9	37	1.10	0.47 - 2.55
Car repair at home during pregnancy	No	28	128	1.0	-
	Yes	10	28	1.53	0.67 - 3.49
Fingernail polish or remover used at home during pregnancy	No	15	57	1.0	-
	Yes	23	99	0.88	0.42 - 1.81
Moth balls or moth crystals used at home during pregnancy	No	32	121	1.0	-
	Yes	6	34	0.67	0.25 - 1.76
Wood cleaner or furniture polish used at home during pregnancy	No	2	15	1.0	-
	Yes	36	141	1.80	0.36 - 8.98

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	37	146	1.0	-
	Yes	1	9	0.48	0.06 - 4.01
Mother regular used heated water bed during pregnancy	No	36	151	1.0	-
	Yes	2	5	2.46	0.31 - 19.7
Mother regular used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	35	141	1.0	-
	Yes	3	14	0.98	0.25 - 3.79
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 19					
Pesticides used indoors at home during childhood	No	30	120	1.0	-
	Yes	9	39	0.90	0.39 - 2.08
Pesticides or herbicides used outdoors during childhood	No	18	53	1.0	-
	Yes	20	105	0.52	0.25 - 1.08
Average annual use of yard or garden treatments during childhood	None	18	53	1.0	-
	Low	10	54	0.51	0.21 - 1.23
	High (3+ /yr)	10	51	0.54	0.22 - 1.30
Pest strips used at home during childhood	No	38	148	1.0	-
	Yes	1	11	0.35	0.04 - 2.79
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	29	94	1.0	-
	Yes	10	65	0.44	0.19 - 1.02
Car repair at home during childhood	No	25	117	1.0	-
	Yes	14	42	1.53	0.72 - 3.25

Table 38: page 2 of 32

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Average annual frequency of car repairs at home during childhood	None	25	117	1.0	-
	Low	7	17	1.89	0.70 - 5.09
	High (4+ /yr)	7	25	1.27	0.49 - 3.33
Fingernail polish or remover used at home during childhood	No	12	43	1.0	-
	Yes	27	116	0.82	0.39 - 1.74
Average monthly frequency of fingernail polish or remover used at home during childhood	None	12	43	1.0	-
	Low	13	55	0.86	0.37 - 2.01
	High (>1/mo)	14	61	0.79	0.33 - 1.88
Moth balls or crystals used at home during childhood	No	31	130	1.0	-
	Yes	8	28	1.17	0.49 - 2.80
Wood cleaner or furniture polish used at home during childhood	No	2	9	1.0	-
	Yes	37	150	0.80	0.10 - 6.12
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	35	141	1.0	-
	High (>1/wk)	4	18	0.88	0.28 - 2.73
Child lived on a farm	No	39	156	1.0	-
	Yes	0	3	0	-
Child was regularly around cows, pigs, or horses	No	39	152	1.0	-
	Yes	0	7	0	-
Child was regularly around chickens, geese, or ducks	No	38	151	1.0	-
	Yes	1	8	0.45	0.05 - 4.00
Child lived with a pet	No	10	40	1.0	-
	Yes	29	119	0.90	0.39 - 2.06

Table 38: page 3 of 32

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a dog	No	15	69	1.0	-
	Yes	24	90	1.16	0.54 - 2.49
Child lived with a cat	No	31	105	1.0	-
	Yes	8	54	0.48	0.21 - 1.13
Child lived with a pet other than a dog or cat	No	27	99	1.0	-
	Yes	12	60	0.69	0.30 - 1.56
Child lived with a pet who wore flea collars	No	20	76	1.0	-
	Yes	19	81	0.83	0.41 - 1.69
Child regularly used an electric blanket or mattress pad	No	37	155	1.0	-
	Yes	2	4	2.00	0.37 - 10.9
Child regularly used a heated water bed	No	36	157	1.0	-
	Yes	3	2	9.83	0.99 - 97.2
Child regularly used an electric blanket, mattress pad, or heated water bed	No	35	153	1.0	-
	Yes	4	6	3.15	0.76 - 13.0
Prenatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Pesticides used indoors at home during pregnancy	No	16	60	1.0	-
	Yes	1	9	0.42	0.05 - 3.39
Pesticides or herbicides used outdoors during pregnancy	No	8	37	1.0	-
	Yes	9	31	1.15	0.40 - 3.32
Pest strips used at home during pregnancy	No	16	64	1.0	-
	Yes	1	4	1.00	0.11 - 8.95

Table 38: page 4 of 32

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Flea collars used on pets at home during pregnancy	No	9	42	1.0	-
	Yes	8	27	1.21	0.38 - 3.79
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	11	56	1.0	-
	Yes	6	13	2.31	0.70 - 7.60
Car repair at home during pregnancy	No	14	57	1.0	-
	Yes	3	13	0.90	0.22 - 3.70
Fingernail polish or remover used at home during pregnancy	No	8	25	1.0	-
	Yes	9	45	0.59	0.20 - 1.78
Moth balls or moth crystals used at home during pregnancy	No	17	58	1.0	-
	Yes	0	11	0	-
Wood cleaner or furniture polish used at home during pregnancy	No	2	9	1.0	-
	Yes	15	61	0.83	0.13 - 5.46
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	16	68	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Mother regularly used heated water bed during pregnancy	No	16	65	1.0	-
	Yes	1	5	1.00	0.07 - 13.7
Mother regularly used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	15	63	1.0	-
	Yes	2	7	1.43	0.24 - 8.65

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia and Nervous System Cancer Diagnosis Ages 0 through 4					
Pesticides used indoors at home during childhood	No	16	60	1.0	-
	Yes	1	11	0.35	0.04 - 2.79
Pesticides or herbicides used outdoors during childhood	No	7	26	1.0	-
	Yes	9	44	0.66	0.21 - 2.05
Average annual use of yard or garden treatments during childhood	None	7	26	1.0	-
	Low	6	19	1.07	0.29 - 3.92
	High (3+ /yr)	3	25	0.37	0.08 - 1.67
Pest strips used at home during childhood	No	16	67	1.0	-
	Yes	1	4	1.00	0.10 - 10.1
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	16	49	1.0	-
	Yes	1	22	0.13	0.02 - 1.04
Car repair done at home during childhood	No	14	58	1.0	-
	Yes	3	13	0.91	0.23 - 3.62
Average annual frequency of car repairs at home during childhood	None	14	58	1.0	-
	Low	2	0	-	-
	High (4+ /yr)	1	13	0.25	0.03 - 2.12
Fingernail polish or remover used at home during childhood	No	8	23	1.0	-
	Yes	9	48	0.52	0.18 - 1.54
Average monthly frequency of fingernail polish or remover used at home during childhood	None	8	23	1.0	-
	Low	5	27	0.55	0.16 - 1.85
	High (>1/mo)	4	21	0.49	0.13 - 1.91

Table 38: page 6 of 32

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Moth balls or crystals use at home during childhood	No	17	59	1.0	-
	Yes	0	11	0	-
Wood cleaner or furniture polish used at home during childhood	No	2	9	1.0	-
	Yes	15	62	0.80	0.11 - 6.12
Average weekly use of wood cleaner or furniture polish in the home during childhood	None/Low	14	64	1.0	-
	High (> 1/wk)	3	7	1.94	0.42 - 9.07
Child lived on a farm	No	17	71	1.0	-
	Yes	0	0	-	-
Child was regularly around cows, pigs, or horses	No	17	69	1.0	-
	Yes	0	2	0	-
Child was regularly around chickens, geese, or ducks	No	17	69	1.0	-
	Yes	0	2	0	-
Child lived with a pet	No	7	25	1.0	-
	Yes	10	46	0.70	0.24 - 2.01
Child lived with a dog	No	8	35	1.0	-
	Yes	9	36	0.94	0.31 - 2.87
Child lived with a cat	No	13	57	1.0	-
	Yes	4	14	1.20	0.33 - 4.35
Child lived with a pet other than a dog or cat	No	14	59	1.0	-
	Yes	3	12	1.11	0.27 - 4.59

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a pet who wore flea collars	No	10	40	1.0	-
	Yes	7	29	0.83	0.28 - 2.43
Child regularly used an electric blanket or mattress pad	No	17	70	1.0	-
	Yes	0	1	0	-
Child regularly used a heated water bed	No	17	71	1.0	-
	Yes	0	0	-	-
Child regularly used an electric blanket, mattress pad, or heated water bed	No	17	70	1.0	-
	Yes	0	1	0	-

Table 38: page 8 of 32

Table 38b. Interview Study Analysis of Household-related Exposures: Chemicals, Animals, and EMFs: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Pesticides used indoors at home during pregnancy	No	19	74	1.0	-
	Yes	2	12	0.59	0.12 - 2.83
Pesticides or herbicides used outdoors during pregnancy	No	12	46	1.0	-
	Yes	8	38	0.73	0.27 - 1.99
Pest strips used at home during pregnancy	No	21	78	1.0	-
	Yes	0	5	0	-
Flea collars used on pets at home during pregnancy	No	17	62	1.0	-
	Yes	4	23	0.56	0.17 - 1.87
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	17	66	1.0	-
	Yes	3	19	0.63	0.17 - 2.39
Car repair at home during pregnancy	No	15	74	1.0	-
	Yes	6	12	2.20	0.75 - 6.51
Fingernail polish or remover used at home during pregnancy	No	10	32	1.0	-
	Yes	11	54	0.65	0.24 - 1.75
Moth balls or moth crystals used at home during pregnancy	No	18	65	1.0	-
	Yes	3	21	0.55	0.15 - 2.06
Wood cleaner or furniture polish used at home during pregnancy	No	2	9	1.0	-
	Yes	19	77	1.15	0.22 - 5.89

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	21	79	1.0	-
	Yes	0	6	0	-
Mother regularly used heated water bed during pregnancy	No	20	86	1.0	-
	Yes	1	0	-	-
Mother regularly used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	20	79	1.0	-
	Yes	1	6	0.76	0.09 - 6.51
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 19					
Pesticides used indoors at home during childhood	No	18	65	1.0	-
	Yes	4	23	0.62	0.19 - 2.05
Pesticides or herbicides used outdoors during childhood	No	10	28	1.0	-
	Yes	12	60	0.55	0.21 - 1.43
Average annual use of yard or garden treatments during childhood	None	10	28	1.0	-
	Low	4	29	0.39	0.11 - 1.38
	High (3+ /yr)	8	31	0.70	0.24 - 2.07
Pest strips used at home during childhood	No	22	81	1.0	-
	Yes	0	7	0	-
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	16	48	1.0	-
	Yes	6	40	0.42	0.14 - 1.24
Car repair done at home during childhood	No	13	70	1.0	-
	Yes	9	18	2.59	0.96 - 6.95

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Average annual frequency of car repairs at home during childhood	None	13	70	1.0	-
	Low	5	9	2.84	0.82 - 9.86
	High (4+ /yr)	4	9	2.30	0.57 - 9.22
Fingernail polish or remover used at home during childhood	No	10	20	1.0	-
	Yes	12	68	0.38	0.14 - 0.97
Average monthly frequency of fingernail polish or remover used at home during childhood	None	10	20	1.0	-
	Low	6	34	0.39	0.13 - 1.18
	High (>1/mo)	6	34	0.35	0.11 - 1.16
Moth balls or crystals used at home during childhood	No	18	69	1.0	-
	Yes	4	19	0.81	0.25 - 2.65
Wood cleaner or furniture polish used at home during childhood	No	2	3	1.0	-
	Yes	20	85	0.32	0.04 - 2.35
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	19	81	1.0	-
	High (>1/wk)	3	7	1.85	0.43 - 7.99
Child lived on a farm	No	22	86	1.0	-
	Yes	0	2	0	-
Child was regularly around cows, pigs, or horses	No	22	86	1.0	-
	Yes	0	2	0	-
Child was regularly around chickens, geese, or ducks	No	22	87	1.0	-
	Yes	0	1	0	-
Child lived with a pet	No	7	27	1.0	-
	Yes	15	61	0.94	0.33 - 2.70

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a dog	No	10	45	1.0	-
	Yes	12	43	1.30	0.47 - 3.56
Child lived with a cat	No	19	63	1.0	-
	Yes	3	25	0.41	0.11 - 1.49
Child lived with a pet other than a dog or cat	No	15	55	1.0	-
	Yes	7	33	0.75	0.26 - 2.18
Child lived with a pet who wore flea collars	No	14	46	1.0	-
	Yes	8	42	0.60	0.21 - 1.67
Child regularly used an electric blanket or mattress pad	No	20	87	1.0	-
	Yes	2	1	8.00	0.72 - 88.2
Child regularly used a heated water bed	No	20	88	1.0	-
	Yes	2	0	-	-
Child regularly used an electric blanket, mattress pad, or heated water bed	No	19	87	1.0	-
	Yes	3	1	12.0	1.25 - 115
Prenatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Pesticides used indoors at home during pregnancy	No	8	30	1.0	-
	Yes	1	5	0.74	0.08 - 6.87
Pesticides or herbicides used outdoors during pregnancy	No	3	17	1.0	-
	Yes	6	17	2.04	0.39 - 10.7
Pest strips used at home during pregnancy	No	9	30	1.0	-
	Yes	0	3	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Flea collars used on pets at home during pregnancy	No	7	26	1.0	-
	Yes	2	9	0.80	0.14 - 4.52
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	7	30	1.0	-
	Yes	2	4	2.05	0.33 - 12.7
Car repair at home during pregnancy	No	7	30	1.0	-
	Yes	2	5	1.77	0.28 - 11.1
Fingernail polish or remover used at home during pregnancy	No	6	12	1.0	-
	Yes	3	23	0.23	0.04 - 1.25
Moth balls or moth crystals used at home during pregnancy	No	9	27	1.0	-
	Yes	0	8	0	-
Wood cleaner or furniture polish used at home during pregnancy	No	2	4	1.0	-
	Yes	7	31	0.41	0.05 - 3.07
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	9	34	1.0	-
	Yes	0	1	0	-
Mother regularly used heated water bed during pregnancy	No	9	35	1.0	-
	Yes	0	0	-	-
Mother regularly used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	9	34	1.0	-
	Yes	0	1	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Leukemia Diagnosis Ages 0 through 4					
Pesticides used indoors at home during childhood	No	9	30	1.0	-
	Yes	0	6	0	-
Pesticides or herbicides used outdoors during childhood	No	4	12	1.0	-
	Yes	5	24	0.58	0.12 - 2.80
Average annual use of yard or garden treatments during childhood	None	4	12	1.0	-
	Low	2	10	0.56	0.08 - 3.86
	High (3+ /yr)	3	14	0.59	0.10 - 3.47
Pest strips used at home during childhood	No	9	33	1.0	-
	Yes	0	3	0	-
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	8	24	1.0	-
	Yes	1	12	0.27	0.03 - 2.32
Car repair at home during childhood	No	7	32	1.0	-
	Yes	2	4	2.17	0.35 - 13.5
Average annual frequency of car repairs at home during childhood	None	7	32	1.0	-
	Low	2	0	-	-
	High (4+ /yr)	0	4	0	-
Fingernail polish or remover used at home during childhood	No	6	10	1.0	-
	Yes	3	26	0.19	0.04 - 1.02
Average monthly frequency of fingernail polish or remover used at home during childhood	None	6	10	1.0	-
	Low	2	15	0.23	0.04 - 1.36
	High (>1/mo)	1	11	0.13	0.01 - 1.52

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Moth balls or crystals used at home during childhood	No	9	28	1.0	-
	Yes	0	8	0	-
Wood cleaner or furniture polish used at home during childhood	No	2	3	1.0	-
	Yes	7	33	0.32	0.04 - 2.35
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	7	33	1.0	-
	High (> 1/wk)	2	3	3.15	0.43 - 23.4
Child lived on a farm	No	9	36	1.0	-
	Yes	0	0	-	-
Child was regularly around cows, pigs, or horses	No	9	36	1.0	-
	Yes	0	0	-	-
Child was regularly around chickens, geese, or ducks	No	9	36	1.0	-
	Yes	0	0	-	-
Child lived with a pet	No	4	16	1.0	-
	Yes	5	20	1.00	0.24 - 4.11
Child lived with a dog	No	5	21	1.0	-
	Yes	4	15	1.14	0.23 - 5.67
Child lived with a cat	No	8	30	1.0	-
	Yes	1	6	0.65	0.07 - 5.72
Child lived with a pet other than a dog or a cat	No	7	28	1.0	-
	Yes	2	8	1.00	0.18 - 5.65

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a pet who wore flea collars	No	6	24	1.0	-
	Yes	3	12	1.00	0.22 - 4.54
Child regularly used an electric blanket or mattress pad	No	9	36	1.0	-
	Yes	0	0	-	-
Child regularly used a heated water bed	No	9	36	1.0	-
	Yes	0	0	-	-
Child regularly used an electric blanket, mattress pad, or heated water bed	No	9	36	1.0	-
	Yes	0	0	-	-

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Table 38c. Interview Study Analysis of Household-related Exposures: Chemicals, Animals, and EMFs: Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Pesticides used indoors at home during pregnancy	No	15	60	1.0	-
	Yes	2	8	0.89	0.15 - 5.17
Pesticides or herbicides used outdoors during pregnancy	No	11	48	1.0	-
	Yes	6	20	1.18	0.39 - 3.57
Pest strips used at home during pregnancy	No	16	68	1.0	-
	Yes	1	2	2.00	0.18 - 22.1
Flea collars used on pets at home during pregnancy	No	9	40	1.0	-
	Yes	8	29	1.06	0.36 - 3.19
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	10	52	1.0	-
	Yes	6	18	1.77	0.56 - 5.58
Car repair at home during pregnancy	No	13	54	1.0	-
	Yes	4	16	0.98	0.28 - 3.46
Fingernail polish or remover used at home during pregnancy	No	5	25	1.0	-
	Yes	12	45	1.28	0.41 - 3.98
Moth balls or moth crystals used at home during pregnancy	No	14	56	1.0	-
	Yes	3	13	0.86	0.21 - 3.54
Wood cleaner or furniture polish used at home during pregnancy	No	0	6	-	-
	Yes	17	64	-	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	16	67	1.0	-
	Yes	1	3	1.40	0.12 - 16.4
Mother regularly used heated water bed during pregnancy	No	16	65	1.0	-
	Yes	1	5	1.00	0.07 - 13.7
Mother regularly used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	15	62	1.0	-
	Yes	2	8	1.19	0.20 - 7.21
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 19					
Pesticides used indoors at home during childhood	No	12	55	1.0	-
	Yes	5	16	1.38	0.40 - 4.71
Pesticides or herbicides used outdoors during childhood	No	8	25	1.0	-
	Yes	8	45	0.50	0.17 - 1.49
Average annual use of yard or garden treatments during childhood	None	8	25	1.0	-
	Low	6	25	0.73	0.21 - 2.49
	High (3+ /yr)	2	20	0.27	0.05 - 1.44
Pest strips used at home during childhood	No	16	67	1.0	-
	Yes	1	4	1.00	0.11 - 8.95
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	13	46	1.0	-
	Yes	4	25	0.46	0.12 - 1.81
Car repair at home during childhood	No	12	47	1.0	-
	Yes	5	24	0.75	0.23 - 2.46

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Average annual frequency of car repairs at home during childhood	None	12	47	1.0	-
	Low	2	8	0.90	0.16 - 5.04
	High (4+ /yr)	3	16	0.69	0.17 - 2.75
Fingernail polish or remover used at home during childhood	No	2	23	1.0	-
	Yes	15	48	3.49	0.71 - 17.1
Average monthly frequency of fingernail polish or remover used at home during childhood	None	2	23	1.0	-
	Low	7	21	3.97	0.72 - 21.8
	High (>1/mo)	8	27	3.11	0.58 - 16.8
Moth balls or crystals used at home during childhood	No	13	61	1.0	-
	Yes	4	9	1.95	0.52 - 7.28
Wood cleaner or furniture polish used at home during childhood	No	0	6	-	-
	Yes	17	65	-	-
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	16	60	1.0	-
	High (>1/wk)	1	11	0.34	0.04 - 2.75
Child lived on a farm	No	17	70	1.0	-
	Yes	0	1	0	-
Child was regularly around cows, pigs, or horses	No	17	66	1.0	-
	Yes	0	5	0	-
Child was regularly around chickens, geese, or ducks	No	16	64	1.0	-
	Yes	1	7	0.52	0.06 - 4.80
Child lived with a pet	No	3	13	1.0	-
	Yes	14	58	0.82	0.21 - 3.16

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a dog	No	5	24	1.0	-
	Yes	12	47	1.00	0.31 - 3.17
Child lived with a cat	No	12	42	1.0	-
	Yes	5	29	0.55	0.17 - 1.76
Child lived with a pet other than a dog or cat	No	12	44	1.0	-
	Yes	5	27	0.61	0.17 - 2.16
Child lived with a pet who wore flea collars	No	6	30	1.0	-
	Yes	11	39	1.18	0.41 - 3.42
Child regularly used an electric blanket or mattress pad	No	17	68	1.0	-
	Yes	0	3	0	-
Child regularly used a heated water bed	No	16	69	1.0	-
	Yes	1	2	2.45	0.14 - 42.6
Child regularly used an electric blanket, mattress pad, or heated water bed	No	16	66	1.0	-
	Yes	1	5	0.77	0.08 - 7.76
Prenatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Pesticides used indoors at home during pregnancy	No	8	30	1.0	-
	Yes	0	4	0	-
Pesticides or herbicides used outdoors during pregnancy	No	5	20	1.0	-
	Yes	3	14	0.68	0.15 - 3.14
Pest strips used at home during pregnancy	No	7	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Flea collars used on pets at home during pregnancy	No	2	16	1.0	-
	Yes	6	18	1.80	0.33 - 9.85
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	4	26	1.0	-
	Yes	4	9	2.53	0.51 - 12.5
Car repair at home during pregnancy	No	7	27	1.0	-
	Yes	1	8	0.41	0.04 - 4.00
Fingernail polish or remover used at home during pregnancy	No	2	13	1.0	-
	Yes	6	22	1.66	0.30 - 9.22
Moth balls or moth crystals used at home during pregnancy	No	8	31	1.0	-
	Yes	0	3	0	-
Wood cleaner or furniture polish used at home during pregnancy	No	0	5	-	-
	Yes	8	30	-	-
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	7	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Mother regularly used heated water bed during pregnancy	No	7	30	1.0	-
	Yes	1	5	1.00	0.07 - 13.7
Mother regularly used electric blanket, electric mattress pad, or heated water bed	No	6	29	1.0	-
	Yes	2	6	1.85	0.28 - 12.4

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Nervous System Cancer Diagnosis Ages 0 through 4					
Pesticides used indoors at home during childhood	No	7	30	1.0	-
	Yes	1	5	0.78	0.08 - 7.28
Pesticides or herbicides used outdoors during childhood	No	3	14	1.0	-
	Yes	4	20	0.76	0.15 - 3.77
Average annual frequency of yard or garden treatments during childhood	None	3	14	1.0	-
	Low	4	9	3.68	0.36 - 37.6
	High (3+ /yr)	0	11	0	-
Pest strips used at home during childhood	No	7	34	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	8	25	1.0	-
	Yes	0	10	0	-
Car repair at home during childhood	No	7	26	1.0	-
	Yes	1	9	0.37	0.04 - 3.40
Average annual frequency of car repairs at home during childhood	None	7	26	1.0	-
	Low	0	0	-	-
	High (4+ /yr)	1	9	0.37	0.04 - 3.40
Fingernail polish or remover used at home during childhood	No	2	13	1.0	-
	Yes	6	22	1.73	0.28 - 10.5
Average monthly frequency of fingernail polish or remover used at home during childhood	None	2	13	1.0	-
	Low	3	12	1.79	0.23 - 13.8
	High (>1/mo)	3	10	1.68	0.22 - 12.6

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Moth balls or crystals used at home during childhood	No	8	31	1.0	-
	Yes	0	3	0	-
Wood cleaner or furniture polish used at home during childhood	No	0	6	-	-
	Yes	8	29	-	-
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	7	31	1.0	-
	High (> 1/wk)	1	4	1.00	0.09 - 11.6
Child lived on a farm	No	8	35	1.0	-
	Yes	0	0	-	-
Child was regularly around cows, pigs, or horses	No	8	33	1.0	-
	Yes	0	2	0	-
Child was regularly around chickens, geese, or ducks	No	8	33	1.0	-
	Yes	0	2	0	-
Child lived with a pet	No	3	9	1.0	-
	Yes	5	26	0.44	0.10 - 2.06
Child lived with a dog	No	3	14	1.0	-
	Yes	5	21	0.77	0.16 - 3.66
Child lived with a cat	No	5	27	1.0	-
	Yes	3	8	1.95	0.34 - 11.2
Child lived with a pet other than a dog or a cat	No	7	31	1.0	-
	Yes	1	4	1.40	0.12 - 16.4

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a pet who wore flea collar	No	4	16	1.0	-
	Yes	4	17	0.70	0.16 - 3.08
Child regularly used an electric blanket or mattress pad	No	8	34	1.0	-
	Yes	0	1	0	-
Child regularly used a heated water bed	No	8	35	1.0	-
	Yes	0	0	-	-
Child regularly used an electric blanket, mattress pad, or heated water bed	No	8	34	1.0	-
	Yes	0	1	0	-

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Table 38d. Interview Study Analysis of Household-related Exposures: Chemicals, Animals, and EMFs: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Pesticides used indoors at home during pregnancy	No	10	44	1.0	-
	Yes	2	6	1.27	0.19 - 8.39
Pesticides or herbicides used outdoors during pregnancy	No	8	38	1.0	-
	Yes	4	12	1.42	0.38 - 5.32
Pest strips used at home during pregnancy	No	12	49	1.0	-
	Yes	0	2	0	-
Flea collars used on pets at home during pregnancy	No	8	31	1.0	-
	Yes	4	19	0.64	0.15 - 2.77
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	8	37	1.0	-
	Yes	3	14	1.00	0.24 - 4.24
Car repair at home during pregnancy	No	9	38	1.0	-
	Yes	3	13	0.88	0.22 - 3.59
Fingernail polish or remover used at home during pregnancy	No	3	16	1.0	-
	Yes	9	35	1.27	0.29 - 5.48
Moth balls or moth crystals used at home during pregnancy	No	9	39	1.0	-
	Yes	3	11	1.09	0.25 - 4.76
Wood cleaner or furniture polish used at home during pregnancy	No	0	3	-	-
	Yes	12	48	-	-

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	11	48	1.0	-
	Yes	1	3	1.40	0.12 - 16.4
Mother regularly used heated water bed during pregnancy	No	12	49	1.0	-
	Yes	0	2	0	-
Mother regularly used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	11	46	1.0	-
	Yes	1	5	1.00	0.10 - 10.1
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Pesticides used indoors at home during childhood	No	8	39	1.0	-
	Yes	4	13	1.37	0.33 - 5.66
Pesticides or herbicides used outdoors during childhood	No	6	20	1.0	-
	Yes	6	32	0.50	0.14 - 1.80
Average annual frequency of yard or garden treatments during childhood	None	6	20	1.0	-
	Low	4	18	0.60	0.14 - 2.66
	High (3+ /yr)	2	14	0.40	0.07 - 2.22
Pest strips used at home during childhood	No	12	48	1.0	-
	Yes	0	4	0	-
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	8	31	1.0	-
	Yes	4	21	0.61	0.15 - 2.53
Car repair at home during childhood	No	8	32	1.0	-
	Yes	4	20	0.70	0.19 - 2.64

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Average annual frequency of car repairs at home during childhood	None	8	32	1.0	-
	Low	2	8	0.87	0.15 - 4.92
	High (4+ /yr)	2	12	0.60	0.12 - 3.11
Fingernail polish or remover used at home during childhood	No	0	15	-	-
	Yes	12	37	-	-
Average monthly frequency of fingernail polish or remover used at home during childhood	None	0	15	-	-
	Low	6	15	-	-
	High(> 1/mo)	6	22	-	-
Moth balls or crystals used at home during childhood	No	8	44	1.0	-
	Yes	4	7	2.91	0.68 - 12.4
Wood cleaner or furniture polish used at home during childhood	No	0	2	-	-
	Yes	12	50	-	-
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	12	43	1.0	-
	High (> 1/wk)	0	9	0	-
Child lived on a farm	No	12	51	1.0	-
	Yes	0	1	0	-
Child was regularly around cows, pigs, or horses	No	12	48	1.0	-
	Yes	0	4	0	-
Child was regularly around chickens, geese, or ducks	No	11	45	1.0	-
	Yes	1	7	0.52	0.06 - 4.80
Child lived with a pet	No	2	8	1.0	-
	Yes	10	44	0.62	0.12 - 3.22

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a dog	No	4	16	1.0	-
	Yes	8	36	0.67	0.17 - 2.59
Child lived with a cat	No	9	27	1.0	-
	Yes	3	25	0.31	0.07 - 1.28
Child lived with a pet other than a dog or cat	No	8	26	1.0	-
	Yes	4	26	0.43	0.11 - 1.66
Child lived with a pet who wore flea collars	No	4	21	1.0	-
	Yes	8	30	1.11	0.31 - 3.97
Child regularly used an electric blanket or mattress pad	No	12	49	1.0	-
	Yes	0	3	0	-
Child regularly used a heated water bed	No	11	50	1.0	-
	Yes	1	2	2.45	0.14 - 42.6
Child regularly used an electric blanket, mattress pad, or heated water bed	No	11	47	1.0	-
	Yes	1	5	0.77	0.07 - 7.76
Prenatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Pesticides indoors at home during pregnancy	No	3	14	1.0	-
	Yes	0	2	0	-
Pesticides or herbicides used outdoors during pregnancy	No	2	10	1.0	-
	Yes	1	6	0.56	0.05 - 6.44
Pest strips used at home during pregnancy	No	3	15	1.0	-
	Yes	0	1	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Flea collars used on pets at home during pregnancy	No	1	7	1.0	-
	Yes	2	8	0.61	0.03 - 13.0
Oil based paint, paint thinners, brush cleaners or furniture strippers used at home during pregnancy	No	2	11	1.0	-
	Yes	1	5	0.72	0.06 - 9.12
Car repair at home during pregnancy	No	3	11	1.0	-
	Yes	0	5	0	-
Fingernail polish or remover used at home during pregnancy	No	0	4	-	-
	Yes	3	12	-	-
Moth balls or moth crystals used at home during pregnancy	No	3	14	1.0	-
	Yes	0	1	0	-
Wood cleaner or furniture polish used at home	No	0	2	0	-
	Yes	3	14	0	-
Mother regularly used electric blanket or electric mattress pad during pregnancy	No	2	15	1.0	-
	Yes	1	1	4.00	0.25 - 64.0
Mother regularly used heated water bed during pregnancy	No	3	14	1.0	-
	Yes	0	2	0	-
Mother regularly used electric blanket, electric mattress pad, or heated water bed during pregnancy	No	2	13	1.0	-
	Yes	1	3	2.00	0.18 - 22.1

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Postnatal Exposure: Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Pesticides used indoors at home during childhood	No	3	14	1.0	-
	Yes	0	2	0	-
Pesticides or herbicides used outdoors during childhood	No	1	9	1.0	-
	Yes	2	7	1.38	0.11 - 17.4
Average annual frequency of use yard or garden treatments during childhood	None	1	9	-	-
	Low	2	2	-	-
	High (3+ /yr)	0	5	-	-
Pest strips were used at home during childhood	No	3	15	1.0	-
	Yes	0	1	0	-
Oil based paints, thinner, brush cleaner or strippers used at home during childhood	No	3	10	1.0	-
	Yes	0	6	0	-
Car repair at home during childhood	No	3	11	1.0	-
	Yes	0	5	0	-
Average annual frequency of car repairs at home during childhood	None	3	11	1.0	-
	Low	0	0	-	-
	High (4+ /yr)	0	5	0	-
Fingernail polish or remover used at home during childhood	No	0	5	-	-
	Yes	3	11	-	-
Average monthly frequency of fingernail polish or remover used at home during childhood	None	0	5	-	-
	Low	2	6	-	-
	High (>1/mo)	1	5	-	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Moth balls or crystals used at home during childhood	No	3	14	1.0	-
	Yes	0	1	0	-
Wood cleaner or furniture polish used at home during childhood	No	0	2	-	-
	Yes	3	14	-	-
Average weekly use of wood cleaner or furniture polish at home during childhood	None/Low	3	14	1.0	-
	High (> 1/wk)	0	2	0	-
Child lived on a farm	No	3	16	1.0	-
	Yes	0	0	-	-
Child was regularly around cows, pigs, or horses	No	3	15	1.0	-
	Yes	0	1	0	-
Child was regularly around chickens, geese, or ducks	No	3	14	1.0	-
	Yes	0	2	0	-
Child lived with a pet	No	2	4	1.0	-
	Yes	1	12	0.12	0.01 - 1.38
Child lived with a dog	No	2	6	1.0	-
	Yes	1	10	0.17	0.01 - 1.93
Child lived with a cat	No	2	12	1.0	-
	Yes	1	4	1.00	0.03 - 32.0
Child lived with a pet other than a dog or a cat	No	3	13	1.0	-
	Yes	0	3	0	-

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child lived with a pet who wore flea collars	No	2	7	1.0	-
	Yes	1	8	0.22	0.02 - 2.78
Child regularly used an electric blanket or mattress pad	No	3	15	1.0	-
	Yes	0	1	0	-
Child regularly used a heated water bed	No	3	16	1.0	-
	Yes	0	0	-	-
Child regularly used an electric blanket, mattress pad, or heated water bed	No	3	15	1.0	-
	Yes	0	1	0	-

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Table 39. Comparison of Controls Lost to Follow-up and Interview Study Controls

Characteristic	Lost to Follow-up (n=39)		Interview Study (n=159)	
	Number	Percent	Number	Percent
Race:				
White	31	79.5	154	96.9
Non-white	1	2.6	5	3.1
Unknown	7	17.9	0	0.0
Maternal residence in Dover Township at child's birth:				
Yes	9	23.1	84	52.8
No	28	71.8	73	45.9
Unknown	2	5.1	2	1.3
Mean year of birth	1976		1980	
Mean maternal age at child's birth	26		27	
Child was first live birth of mother:				
Yes	8	20.5	65	40.9
No	24	61.5	91	57.2
Unknown	7	18.0	3	1.9
Mean birth weight in grams	3361		3352	

Table 40. Interview Study Case School Status at Time Matched Controls were Selected: Children Diagnosed Under Age 6

Case School Status at Toms River School District when Matched Controls were Selected (controls matched to projected first grade class of case)	Number of Cases
Number of cases enrolled in Toms River School District along with their controls	11
Number of cases who died prior to entering first grade	3
Number of cases who could not be identified as being enrolled in the Toms River School District along with their controls	3
Total cases diagnosed prior to school age (<6) with controls selected from the Toms River School District	17

Table 41. Birth Records Study Summary of Case Ascertainment

Residential Location at Time of Diagnosis: Dover Township Birth Cohort Subsequently Diagnosed with Cancer	Cases (n=48)	
	Number	Percent
Dover Township, Ocean County	41	85.4
Ocean County, excluding Dover Township	5	10.4
New Jersey, excluding Ocean County	1	2.1
Outside of New Jersey	1	2.1

Table 42. Birth Records Study Cases by Diagnosis Age and Cancer Type

Cancer Type	Age at Diagnosis				Total Cases by Type	Percent of All Cancers
	0 - 4	5 - 9	10 - 14	15 - 19		
Leukemia	7	4	3	2	16	33.3
Sympathetic nervous system cancer	5	0	0	1	6	12.5
Brain and central nervous system cancer	4	0	1	2	7	14.6
All other cancers	7	1	5	6	19	39.6
Total	23	5	9	11	48	100.0

Table 43. Birth Records Study Residence with a Private Well in a Groundwater Region

Birth Residence with a Private Well in a Groundwater Region	Cases (n=48)		Controls (n=480)	
	Number	Percent	Number	Percent
A. Pleasant Plains Zone 1				
Yes	0	0.0	3	0.6
No	48	100.0	477	99.4
B. Reich Farm Plume				
Yes	0	0.0	1	0.2
No	48	100.0	479	99.8
C. Ciba-Geigy Groundwater Plume				
Yes	0	0.0	0	0.0
No	48	100.0	480	100.0
D. Silverton Wells				
Yes	0	0.0	0	0.0
No	48	100.0	480	100.0
E. Silverton Road				
Yes	0	0.0	0	0.0
No	48	100.0	480	100.0
F. North Gilford Park				
Yes	0	0.0	3	0.6
No	48	100.0	477	99.4
G. Shelter Cove				
Yes	0	0.0	0	0.0
No	48	100.0	480	100.0
H. Breton Harbors				
Yes	1	2.1	7	1.5
No	47	97.9	473	98.5
I. North Maple Avenue				
Yes	1	2.1	0	0.0
No	47	97.9	480	100.0
J. Beachwood and Veeder				
Yes	0	0.0	3	0.6
No	48	100.0	477	99.4
K. Miscellaneous Street Segments				
Yes	0	0.0	4	0.8
No	48	100.0	476	99.2

Table 44. Birth Records Study Analysis of Private Well Use in Any Groundwater Region

Cancer Type	Age of Diagnosis	Private Well in Any Groundwater Region	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancers	0 through 19	No	46	460	1.0	-
		Yes	2	20	1.00	0.23 - 4.43
	0 through 4	No	22	221	1.0	-
		Yes	1	9	1.12	0.13 - 9.75
Leukemia	0 through 19	No	15	152	1.0	-
		Yes	1	8	1.26	0.15 - 10.3
	0 through 4	No	6	66	1.0	-
		Yes	1	4	2.65	0.27 - 26.3
Nervous System	0 through 19	No	12	129	1.0	-
		Yes	1	1	10.0	0.63 - 160
	0 through 4	No	9	90	1.0	-
		Yes	0	0	-	-
Brain and Central Nervous System	0 through 19	No	7	69	1.0	-
		Yes	0	1	0	-
	0 through 4	No	4	40	1.0	-
		Yes	0	0	-	-
All Other Cancers	0 through 19	No	19	179	1.0	-
		Yes	0	11	0	-
	0 through 4	No	7	65	1.0	-
		Yes	0	5	0	-

Table 45. Birth Records Study Percent of Public Water Delivered by Source to Study Residences

Well Field	Cases (n = 48)		Controls (n = 480)	
	Number	Percent	Number	Percent
Anchorage				
<10%	48	100.0	473	98.5
10% - 49.9%	0	0.0	7	1.5
50%+	0	0.0	0	0.0
Berkeley				
<10%	46	95.8	466	97.1
10% - 49.9%	2	4.2	10	2.1
50%+	0	0.0	4	0.8
Brookside				
<10%	33	68.8	386	80.4
10% - 49.9%	10	20.8	56	11.7
50%+	5	10.4	38	7.9
Holly Street				
<10%	21	43.8	247	51.5
10% - 49.9%	15	31.3	132	27.5
50%+	12	25.0	101	21.0
Indian Head				
<10%	43	89.6	435	90.6
10% - 49.9%	5	10.4	34	7.1
50%+	0	0.0	11	2.3
Parkway				
<10%	21	43.8	221	46.0
10% - 49.9%	12	25.0	100	20.8
50%+	15	31.3	159	33.1
Route 70				
<10%	42	87.5	419	87.3
10% - 49.9%	5	10.4	51	10.6
50%+	1	2.1	10	2.1
Silver Bay				
<10%	46	95.8	475	99.0
10% - 49.9%	2	4.2	5	1.0
50%+	0	0.0	0	0.0

Well Field	Cases (n = 48)		Controls (n = 480)	
	Number	Percent	Number	Percent
South Toms River				
<10%	46	95.8	454	94.6
10% - 49.9%	2	4.2	26	5.4
50%+	0	0.0	0	0.0
Windsor				
<10%	48	100.0	477	99.4
10% - 49.9%	0	0.0	3	0.6
50%+	0	0.0	0	0.0

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Table 46a. Birth Records Study Analysis of Public Water Indices: All Cancers Combined

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 19					
Brookside	<10	33	386	1.0	-
	10 - 49.9	10	56	2.30	1.02 - 5.19
	50+	5	38	1.92	0.53 - 6.95
Holly Street	<10	21	247	1.0	-
	10 - 49.9	15	132	1.38	0.67 - 2.85
	50+	12	101	1.48	0.66 - 3.34
Indian Head	<10	43	435	1.0	-
	10 - 49.9	5	34	1.56	0.55 - 4.40
	50+	0	11	0	-
Parkway	<10	21	221	1.0	-
	10 - 49.9	12	100	1.33	0.55 - 3.21
	50+	15	159	1.04	0.44 - 2.43
Route 70	<10	42	419	1.0	-
	10 - 49.9	5	51	0.97	0.33 - 2.89
	50+	1	10	0.99	0.12 - 8.19

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 4					
Brookside	<10	19	210	1.0	-
	10 - 49.9	4	20	2.47	0.70 - 8.71
	50+	0	0	-	-
Holly Street	<10	12	134	1.0	-
	10 - 49.9	8	63	1.48	0.54 - 4.06
	50+	3	33	1.03	0.26 - 4.01
Indian Head	<10	20	208	1.0	-
	10 - 49.9	3	16	2.32	0.52 - 10.3
	50+	0	6	0	-
Parkway	<10	6	57	1.0	-
	10 - 49.9	8	65	1.20	0.38 - 3.80
	50+	9	108	0.79	0.27 - 2.34
Route 70	<10	19	180	1.0	-
	10 - 49.9	3	43	0.63	0.16 - 2.38
	50+	1	7	1.34	0.15 - 11.9

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Table 46b. Birth Records Study Analysis of Public Water Indices: Leukemia

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Brookside	<10	11	130	1.0	-
	10 - 49.9	3	22	1.80	0.43 - 7.56
	50+	2	8	5.49	0.61 - 49.8
Holly Street	<10	7	81	1.0	-
	10 - 49.9	4	39	1.22	0.32 - 4.61
	50+	5	40	1.61	0.40 - 6.41
Indian Head	<10	15	148	1.0	-
	10 - 49.9	1	5	2.03	0.22 - 18.5
	50+	0	7	0	-
Parkway	<10	6	72	1.0	-
	10 - 49.9	4	28	1.90	0.43 - 8.45
	50+	6	60	1.38	0.31 - 6.08
Route 70	<10	12	135	1.0	-
	10 - 49.9	3	22	1.93	0.38 - 9.65
	50+	1	3	4.22	0.40 - 45.1

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 4					
Brookside	<10	6	64	1.0	-
	10 - 49.9	1	6	1.82	0.18 - 18.7
	50+	0	0	-	-
Holly Street	<10	4	43	1.0	-
	10 - 49.9	2	19	1.14	0.18 - 7.34
	50+	1	8	1.38	0.12 - 16.0
Indian Head	<10	7	65	1.0	-
	10 - 49.9	0	1	0	-
	50+	0	4	0	-
Parkway	<10	2	13	1.0	-
	10 - 49.9	1	15	0.45	0.04 - 5.36
	50+	4	42	0.65	0.12 - 3.65
Route 70	<10	5	55	1.0	-
	10 - 49.9	1	15	0.77	0.07 - 8.68
	50+	1	0	-	-

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Table 46c. Birth Records Study Analysis of Public Water Indices: Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	10	110	1.0	-
	10 - 49.9	3	14	2.51	0.56 - 11.3
	50+	0	6	0	-
Holly Street	<10	6	61	1.0	-
	10 - 49.9	4	47	0.86	0.22 - 3.33
	50+	3	22	1.47	0.30 - 7.20
Indian Head	<10	11	116	1.0	-
	10 - 49.9	2	12	1.83	0.35 - 9.66
	50+	0	2	0	-
Parkway	<10	5	43	1.0	-
	10 - 49.9	4	42	0.71	0.13 - 3.78
	50+	4	45	0.68	0.14 - 3.28
Route 70	<10	12	108	1.0	-
	10 - 49.9	1	19	0.39	0.04 - 3.79
	50+	0	3	0	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	8	84	1.0	-
	10 - 49.9	1	6	1.82	0.18 - 18.7
	50+	0	0	-	-
Holly Street	<10	4	46	1.0	-
	10 - 49.9	4	34	1.39	0.31 - 6.29
	50+	1	10	1.17	0.11 - 11.9
Indian Head	<10	7	79	1.0	-
	10 - 49.9	2	9	2.84	0.45 - 18.1
	50+	0	2	0	-
Parkway	<10	2	16	1.0	-
	10 - 49.9	4	36	0.91	0.13 - 6.14
	50+	3	38	0.66	0.10 - 4.14
Route 70	<10	8	68	1.0	-
	10 - 49.9	1	19	0.39	0.04 - 3.79
	50+	0	3	0	-

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Table 46d. Birth Records Study Analysis of Public Water Indices: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Brookside	<10	5	56	1.0	-
	10 - 49.9	2	8	3.30	0.42 - 25.8
	50+	0	6	0	-
Holly Street	<10	3	29	1.0	-
	10 - 49.9	1	28	0.36	0.04 - 3.57
	50+	3	13	3.12	0.40 - 24.2
Indian Head	<10	6	64	1.0	-
	10 - 49.9	1	5	2.15	0.22 - 21.3
	50+	0	1	0	-
Parkway	<10	3	28	1.0	-
	10 - 49.9	2	19	0.84	0.06 - 11.2
	50+	2	23	0.71	0.06 - 8.38
Route 70	<10	7	58	1.0	-
	10 - 49.9	0	11	0	-
	50+	0	1	0	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Brookside	<10	4	38	1.0	-
	10 - 49.9	0	2	0	-
	50+	0	0	-	-
Holly Street	<10	2	19	1.0	-
	10 - 49.9	1	16	0.58	0.05 - 6.99
	50+	1	5	1.92	0.14 - 26.1
Indian Head	<10	3	36	1.0	-
	10 - 49.9	1	3	4.50	0.28 - 71.9
	50+	0	1	0	-
Parkway	<10	1	6	1.0	-
	10 - 49.9	2	16	0.76	0.05 - 11.2
	50+	1	18	0.36	0.02 - 6.39
Route 70	<10	4	28	1.0	-
	10 - 49.9	0	11	0	-
	50+	0	1	0	-

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Table 46e. Birth Records Study Analysis of Public Water Indices: All Other Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancer Diagnosis Ages 0 through 19					
Brookside	<10	12	146	1.0	-
	10 - 49.9	4	20	2.69	0.73 - 9.90
	50+	3	24	1.82	0.31 - 10.6
Holly Street	<10	8	105	1.0	-
	10 - 49.9	7	46	2.17	0.69 - 6.84
	50+	4	39	1.43	0.38 - 5.32
Indian Head	<10	17	171	1.0	-
	10 - 49.9	2	17	1.19	0.23 - 6.12
	50+	0	2	0	-
Parkway	<10	10	106	1.0	-
	10 - 49.9	4	30	1.48	0.37 - 5.88
	50+	5	54	1.03	0.26 - 4.10
Route 70	<10	18	176	1.0	-
	10 - 49.9	1	10	0.93	0.10 - 8.51
	50+	0	4	0	-

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancer Diagnosis Ages 0 through 4					
Brookside	<10	5	62	1.0	-
	10 - 49.9	2	8	4.12	0.56 - 30.3
	50+	0	0	-	-
Holly Street	<10	4	45	1.0	-
	10 - 49.9	2	10	2.33	0.33 - 16.6
	50+	1	15	0.81	0.08 - 8.44
Indian Head	<10	6	64	1.0	-
	10 - 49.9	1	6	2.16	0.13 - 35.1
	50+	0	0	-	-
Parkway	<10	2	28	1.0	-
	10 - 49.9	3	14	2.74	0.44 - 16.9
	50+	2	28	0.92	0.12 - 7.32
Route 70	<10	6	57	1.0	-
	10 - 49.9	1	9	1.04	0.11 - 10.0
	50+	0	4	0	-

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Table 47a. Birth Records Study Analysis of Public Water Indices by Sex: All Cancers Combined

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Cancer Diagnosis Ages 0 through 19									
Brookside	<10	14	171	1.0	-	19	215	1.0	-
	10 - 49.9	4	27	1.97	0.55 - 7.08	6	29	2.44	0.85 - 7.01
	50+	5	32	2.54	0.63 - 10.2	0	6	0	-
Holly Street	<10	9	111	1.0	-	12	136	1.0	-
	10 - 49.9	7	56	1.61	0.55 - 4.69	8	76	1.21	0.45 - 3.24
	50+	7	63	1.47	0.47 - 4.56	5	38	1.56	0.48 - 5.03
Indian Head	<10	21	205	1.0	-	22	230	1.0	-
	10 - 49.9	2	18	1.12	0.23 - 5.36	3	16	2.14	0.52 - 8.85
	50+	0	7	0	-	0	4	0	-
Parkway	<10	14	141	1.0	-	7	80	1.0	-
	10 - 49.9	4	40	1.03	0.24 - 4.46	8	60	1.55	0.51 - 4.71
	50+	5	49	1.05	0.26 - 4.22	10	110	1.05	0.36 - 3.08
Route 70	<10	21	208	1.0	-	21	211	1.0	-
	10 - 49.9	2	17	1.15	0.19 - 6.86	3	34	0.88	0.22 - 3.51
	50+	0	5	0	-	1	5	1.94	0.22 - 17.0

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Cancer Diagnosis Ages 0 through 4									
Brookside	<10	6	79	1.0	-	13	131	1.0	-
	10 - 49.9	3	11	5.92	0.84 - 41.9	1	9	1.12	0.13 - 9.23
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	4	52	1.0	-	8	82	1.0	-
	10 - 49.9	3	22	1.85	0.37 - 9.17	5	41	1.33	0.36 - 4.85
	50+	2	16	1.77	0.27 - 11.6	1	17	0.59	0.07 - 5.17
Indian Head	<10	8	75	1.0	-	12	133	1.0	-
	10 - 49.9	1	10	1.00	0.10 - 9.96	2	6	5.39	0.67 - 43.1
	50+	0	5	0	-	0	1	0	-
Parkway	<10	2	26	1.0	-	4	31	1.0	-
	10 - 49.9	3	30	1.37	0.19 - 9.99	5	35	1.17	0.29 - 4.73
	50+	4	34	1.60	0.25 - 10.4	5	74	0.53	0.14 - 2.04
Route 70	<10	8	73	1.0	-	11	107	1.0	-
	10 - 49.9	1	13	0.66	0.07 - 6.54	2	30	0.62	0.12 - 3.23
	50+	0	4	0	-	1	3	3.01	0.31 - 29.5

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Table 47b. Birth Records Study Analysis of Public Water Indices by Sex: Leukemia

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia Diagnosis Ages 0 through 19									
Brookside	<10	4	53	1.0	-	7	77	1.0	-
	10 - 49.9	1	10	1.56	0.15 - 16.5	2	12	1.95	0.32 - 11.8
	50+	2	7	9.06	0.63 - 131	0	1	0	-
Holly Street	<10	4	37	1.0	-	3	44	1.0	-
	10 - 49.9	2	12	1.45	0.22 - 9.66	2	27	1.10	0.16 - 7.49
	50+	1	21	0.32	0.02 - 4.23	4	19	3.96	0.66 - 23.7
Indian Head	<10	6	63	1.0	-	9	85	1.0	-
	10 - 49.9	1	1	9.49	0.59 - 152	0	4	0	-
	50+	0	6	0	-	0	1	0	-
Parkway	<10	3	39	1.0	-	3	33	1.0	-
	10 - 49.9	1	11	3.15	0.12 - 85.3	3	17	1.85	0.36 - 9.54
	50+	3	20	5.83	0.20 - 169	3	40	0.74	0.12 - 4.35
Route 70	<10	6	59	1.0	-	6	76	1.0	-
	10 - 49.9	1	10	0.91	0.06 - 14.6	2	12	2.52	0.39 - 16.4
	50+	0	1	0	-	1	2	6.72	0.54 - 84.0

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia Diagnosis Ages 0 through 4									
Brookside	<10	1	18	1.0	-	5	46	1.0	-
	10 - 49.9	1	2	-	-	0	4	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	1	14	1.0	-	3	29	1.0	-
	10 - 49.9	1	3	3.67	0.23 - 59.6	1	16	0.55	0.05 - 6.37
	50+	0	3	0	-	1	5	2.24	0.15 - 32.6
Indian Head	<10	2	16	1.0	-	5	49	1.0	-
	10 - 49.9	0	0	-	-	0	1	0	-
	50+	0	4	0	-	0	0	-	-
Parkway	<10	0	3	-	-	2	10	1.0	-
	10 - 49.9	0	7	-	-	1	8	0.70	0.06 - 8.02
	50+	2	10	-	-	2	32	0.34	0.05 - 2.47
Route 70	<10	2	14	1.0	-	3	41	1.0	-
	10 - 49.9	0	6	0	-	1	9	1.97	0.16 - 24.9
	50+	0	0	-	-	1	0	-	-

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Table 47c. Birth Records Study Analysis of Public Water Indices by Sex: Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	5	57	1.0	-	5	53	1.0	-
	10 - 49.9	2	7	3.11	0.49 - 19.6	1	7	1.68	0.12 - 22.9
	50+	0	6	0	-	0	0	-	-
Holly Street	<10	2	31	1.0	-	4	30	1.0	-
	10 - 49.9	2	21	1.67	0.21 - 13.6	2	26	0.59	0.10 - 3.65
	50+	3	18	3.07	0.38 - 25.2	0	4	0	-
Indian Head	<10	7	63	1.0	-	4	53	1.0	-
	10 - 49.9	0	6	0	-	2	6	5.39	0.67 - 43.1
	50+	0	1	0	-	0	1	0	-
Parkway	<10	4	32	1.0	-	1	11	1.0	-
	10 - 49.9	2	18	0.58	0.04 - 7.73	2	24	0.91	0.08 - 10.7
	50+	1	20	0.29	0.02 - 3.82	3	25	1.29	0.13 - 12.7
Route 70	<10	7	65	1.0	-	5	43	1.0	-
	10 - 49.9	0	5	0	-	1	14	0.54	0.05 - 6.34
	50+	0	0	-	-	0	3	0	-

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	3	37	1.0	-	5	47	1.0	-
	10 - 49.9	1	3	5.16	0.28 - 96.2	0	3	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	1	21	1.0	-	3	25	1.0	-
	10 - 49.9	2	13	3.85	0.30 - 50.3	2	21	0.83	0.12 - 5.96
	50+	1	6	4.87	0.20 - 119	0	4	0	-
Indian Head	<10	4	35	1.0	-	3	44	1.0	-
	10 - 49.9	0	4	0	-	2	5	9.34	0.75 - 117
	50+	0	1	0	-	0	1	0	-
Parkway	<10	1	7	1.0	-	1	9	1.0	-
	10 - 49.9	2	15	1.11	0.04 - 29.6	2	21	0.86	0.07 - 10.3
	50+	1	18	0.45	0.02 - 8.36	2	20	0.90	0.08 - 10.3
Route 70	<10	4	35	1.0	-	4	33	1.0	-
	10 - 49.9	0	5	0	-	1	14	0.54	0.05 - 6.34
	50+	0	0	-	-	0	3	0	-

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Table 47d. Birth Records Study Analysis of Public Water Indices by Sex: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Brookside	<10	2	22	1.0	-	3	34	1.0	-
	10 - 49.9	1	2	4.58	0.27 - 78.0	1	6	2.32	0.12 - 43.3
	50+	0	6	0	-	0	0	-	-
Holly Street	<10	0	8	-	-	3	21	1.0	-
	10 - 49.9	0	12	-	-	1	16	0.46	0.04 - 4.81
	50+	3	10	-	-	0	3	0	-
Indian Head	<10	3	27	1.0	-	3	37	1.0	-
	10 - 49.9	0	3	0	-	1	2	6.71	0.40 - 113
	50+	0	0	-	-	0	1	0	-
Parkway	<10	2	20	1.0	-	1	8	1.0	-
	10 - 49.9	1	6	-	-	1	13	0.63	0.04 - 10.8
	50+	0	4	0	-	2	19	0.85	0.07 - 9.66
Route 70	<10	3	28	1.0	-	4	30	1.0	-
	10 - 49.9	0	2	0	-	0	9	0	-
	50+	0	0	-	-	0	1	0	-

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Brookside	<10	1	10	1.0	-	3	28	1.0	-
	10 - 49.9	0	0	-	-	0	2	0	-
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	0	3	-	-	2	16	1.0	-
	10 - 49.9	0	5	-	-	1	11	0.77	0.06 - 10.2
	50+	1	2	-	-	0	3	0	-
Indian Head	<10	1	8	1.0	-	2	28	1.0	-
	10 - 49.9	0	2	0	-	1	1	-	-
	50+	0	0	-	-	0	1	0	-
Parkway	<10	0	0	-	-	1	6	1.0	-
	10 - 49.9	1	6	-	-	1	10	0.61	0.03 - 11.0
	50+	0	4	-	-	1	14	0.46	0.03 - 7.64
Route 70	<10	1	8	1.0	-	3	20	1.0	-
	10 - 49.9	0	2	0	-	0	9	0	-
	50+	0	0	-	-	0	1	0	-

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Table 47e. Birth Records Study Analysis of Public Water Indices by Sex: All Other Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Other Cancer Diagnosis Ages 0 through 19									
Brookside	<10	5	61	1.0	-	7	85	1.0	-
	10 - 49.9	1	10	1.17	0.09 - 15.6	3	10	3.27	0.73 - 14.6
	50+	3	19	2.61	0.37 - 18.1	0	5	0	-
Holly Street	<10	3	43	1.0	-	5	62	1.0	-
	10 - 49.9	3	23	1.96	0.34 - 11.2	4	23	2.43	0.52 - 11.3
	50+	3	24	1.89	0.33 - 10.8	1	15	0.87	0.09 - 8.29
Indian Head	<10	8	79	1.0	-	9	92	1.0	-
	10 - 49.9	1	11	0.89	0.10 - 8.27	1	6	1.83	0.15 - 22.1
	50+	0	0	-	-	0	2	0	-
Parkway	<10	7	70	1.0	-	3	36	1.0	-
	10 - 49.9	1	11	0.92	0.09 - 9.47	3	19	2.00	0.32 - 12.6
	50+	1	9	1.11	0.10 - 12.9	4	45	1.11	0.20 - 6.32
Route 70	<10	8	84	1.0	-	10	92	1.0	-
	10 - 49.9	1	2	5.29	0.31 - 89.8	0	8	0	-
	50+	0	4	0	-	0	0	-	-

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Other Cancer Diagnosis Ages 0 through 4									
Brookside	<10	2	24	1.0	-	3	38	1.0	-
	10 - 49.9	1	6	2.89	0.10 - 80.2	1	2	5.00	0.45 - 55.1
	50+	0	0	-	-	0	0	-	-
Holly Street	<10	2	17	1.0	-	2	28	1.0	-
	10 - 49.9	0	6	0	-	2	4	-	-
	50+	1	7	1.12	0.09 - 14.8	0	8	0	-
Indian Head	<10	2	24	1.0	-	4	40	1.0	-
	10 - 49.9	1	6	2.16	0.13 - 35.1	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway	<10	1	16	1.0	-	1	12	1.0	-
	10 - 49.9	1	8	1.94	0.12 - 31.3	2	6	3.75	0.31 - 44.9
	50+	1	6	2.65	0.14 - 48.6	1	22	0.53	0.03 - 8.67
Route 70	<10	2	24	1.0	-	4	33	1.0	-
	10 - 49.9	1	2	5.29	0.31 - 89.8	0	7	0	-
	50+	0	4	0	-	0	0	-	-

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Table 48a. Birth Records Study Analysis of Time-specific Public Water Indices: All Cancers Combined

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	33	345	1.0	-
	10 - 49.9	8	56	2.04	0.56 - 7.36
	50+	7	79	1.23	0.33 - 4.60
Holly Street (prior to 1976)	<10	37	389	1.0	-
	10 - 49.9	4	44	1.51	0.32 - 7.05
	50+	7	47	2.73	0.62 - 12.0
All Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	11	111	1.0	-
	10 - 49.9	7	51	1.44	0.38 - 5.43
	50+	5	68	0.74	0.18 - 3.00
Holly Street (prior to 1976)	<10	23	230	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 48b. Birth Records Study Analysis of Time-specific Public Water Indices: Leukemia

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	10	113	1.0	-
	10 - 49.9	2	12	3.63	0.32 - 41.8
	50+	4	35	2.72	0.26 - 28.1
Holly Street (prior to 1976)	<10	14	130	1.0	-
	10 - 49.9	0	9	0	-
	50+	2	21	0.46	0.06 - 3.86
Leukemia Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	3	31	1.0	-
	10 - 49.9	1	9	1.20	0.07 - 19.8
	50+	3	30	1.09	0.11 - 10.8
Holly Street (prior to 1976)	<10	7	70	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 48c. Birth Records Study Analysis of Time-specific Public Water Indices: Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	8	72	1.0	-
	10 - 49.9	3	33	0.52	0.07 - 3.83
	50+	2	25	0.48	0.06 - 3.74
Holly Street (prior to 1976)	<10	11	114	1.0	-
	10 - 49.9	0	8	0	-
	50+	2	8	-	-
Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	4	32	1.0	-
	10 - 49.9	3	33	0.52	0.07 - 3.83
	50+	2	25	0.48	0.06 - 3.74
Holly Street (prior to 1976)	<10	9	90	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 48d. Birth Records Study Analysis of Time-specific Public Water Indices: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	5	44	1.0	-
	10 - 49.9	2	13	0.63	0.04 - 10.9
	50+	0	13	0	-
Holly Street (prior to 1976)	<10	5	54	1.0	-
	10 - 49.9	0	8	0	-
	50+	2	8	-	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	2	14	1.0	-
	10 - 49.9	2	13	0.63	0.04 - 10.9
	50+	0	13	0	-
Holly Street (prior to 1976)	<10	4	40	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 48e. Birth Records Study Analysis of Time-specific Public Water Indices: All Other Cancers Combined

Source Well Field	Average Percent of Water	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancer Diagnosis Ages 0 through 19					
Parkway (1982 and later)	<10	15	160	1.0	-
	10 - 49.9	3	11	4.47	0.45 - 44.2
	50+	1	19	0.94	0.05 - 18.4
Holly Street (prior to 1976)	<10	12	145	1.0	-
	10 - 49.9	4	27	6.24	0.60 - 64.8
	50+	3	18	7.48	0.65 - 86.4
All Other Cancer Diagnosis Ages 0 through 4					
Parkway (1982 and later)	<10	4	48	1.0	-
	10 - 49.9	3	9	4.58	0.46 - 45.4
	50+	0	13	0	-
Holly Street (prior to 1976)	<10	7	70	1.0	-
	10 - 49.9	0	0	-	-
	50+	0	0	-	-

Table 49a. Birth Records Study Analysis of Time-specific Public Water Indices by Sex: All Cancers Combined

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	15	160	1.0	-	22	229	1.0	-
	10 - 49.9	3	31	1.35	0.24 - 7.61	1	13	2.72	0.09 - 82.7
	50+	5	39	1.92	0.37 - 10.0	2	8	10.0	0.27 - 372
Parkway (1982 and later)	<10	19	189	1.0	-	14	156	1.0	-
	10 - 49.9	2	22	0.84	0.09 - 8.16	6	34	3.21	0.61 - 17.1
	50+	2	19	0.98	0.10 - 9.19	5	60	1.46	0.26 - 8.14
All Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	9	90	1.0	-	14	140	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	5	49	1.0	-	6	62	1.0	-
	10 - 49.9	2	22	0.84	0.09 - 8.16	5	29	1.96	0.36 - 10.7
	50+	2	19	0.98	0.10 - 9.19	3	49	0.65	0.10 - 4.01

Table 49b. Birth Records Study Analysis of Time-specific Public Water Indices by Sex: Leukemia

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	6	47	1.0	-	8	83	1.0	-
	10 - 49.9	0	6	0	-	0	3	0	-
	50+	1	17	0.18	0.01 - 2.52	1	4	-	-
Parkway (1982 and later)	<10	6	62	1.0	-	4	51	1.0	-
	10 - 49.9	0	2	0	-	2	10	3.90	0.34 - 45.2
	50+	1	6	-	-	3	29	2.15	0.19 - 24.1
Leukemia Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	2	20	1.0	-	5	50	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	1	12	1.0	-	2	19	1.0	-
	10 - 49.9	0	2	0	-	1	7	1.29	0.08 - 21.5
	50+	1	6	-	-	2	24	0.74	0.06 - 8.56

Table 49c. Birth Records Study Analysis of Time-specific Public Water Indices by Sex: Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	5	55	1.0	-	6	59	1.0	-
	10 - 49.9	0	7	0	-	0	1	0	-
	50+	2	8	-	-	0	0	-	-
Parkway (1982 and later)	<10	5	45	1.0	-	3	27	1.0	-
	10 - 49.9	1	15	0.22	0.01 - 7.42	2	18	0.80	0.07 - 9.49
	50+	1	10	0.36	0.01 - 9.97	1	15	0.50	0.03 - 8.09
Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	4	40	1.0	-	5	50	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	15	1.0	-	2	17	1.0	-
	10 - 49.9	1	15	0.22	0.01 - 7.42	2	18	0.80	0.07 - 9.49
	50+	1	10	0.36	0.01 - 9.97	1	15	0.50	0.03 - 8.09

Table 49d. Birth Records Study Analysis of Time-specific Public Water Indices by Sex: Brain and Central Nervous System Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	1	15	1.0	-	4	39	1.0	-
	10 - 49.9	0	7	0	-	0	1	0	-
	50+	2	8	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	20	1.0	-	3	24	1.0	-
	10 - 49.9	1	6	-	-	1	7	0.63	0.04 - 10.9
	50+	0	4	0	-	0	9	0	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	1	10	1.0	-	3	30	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	0	0	-	-	2	14	1.0	-
	10 - 49.9	1	6	-	-	1	7	0.63	0.04 - 10.9
	50+	0	4	-	-	0	9	0	-

Table 49e. Birth Records Study Analysis of Time-specific Public Water Indices by Sex: All Other Cancers

Source Well Field	Average Percent of Water	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Other Cancer Diagnosis Ages 0 through 19									
Holly Street (prior to 1976)	<10	4	58	1.0	-	8	87	1.0	-
	10 - 49.9	3	18	5.50	0.48 - 62.9	1	9	-	-
	50+	2	14	5.28	0.37 - 75.9	1	4	-	-
Parkway (1982 and later)	<10	8	82	1.0	-	7	78	1.0	-
	10 - 49.9	1	5	2.16	0.13 - 34.6	2	6	-	-
	50+	0	3	0	-	1	16	-	-
All Other Cancer Diagnosis Ages 0 through 4									
Holly Street (prior to 1976)	<10	3	30	1.0	-	4	40	1.0	-
	10 - 49.9	0	0	-	-	0	0	-	-
	50+	0	0	-	-	0	0	-	-
Parkway (1982 and later)	<10	2	22	1.0	-	2	26	1.0	-
	10 - 49.9	1	5	2.16	0.13 - 34.6	2	4	-	-
	50+	0	3	0	-	0	10	0	-

Table 50. Birth Records Study Average Point Source Airborne Gas Emission Exposure

Exposure	Cases (n = 48)		Controls (n = 480)	
	Number	Percent	Number	Percent
Toms River Ciba-Geigy Chemical Plant Airborne Gas Emissions (relative air impact units)				
<1.50	23	47.9	240	50.0
1.50 - 3.04	12	25.0	120	25.0
>3.04	13	27.1	120	25.0
Oyster Creek Nuclear Generating Station Airborne Gas Emissions (fCi/m ³)				
<0.065	23	47.9	242	50.4
0.065 - 0.44	15	31.3	117	24.4
>0.44	10	20.8	121	25.2

Note: Cut points are set at the 50th and 75th percentiles among controls.

Table 51a. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units): All Cancers Combined

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.50	23	240	1.0	-
	1.50 - 3.04	12	120	1.05	0.50 - 2.22
	>3.04	13	120	1.14	0.54 - 2.41
Oyster Creek Gas	<0.065	23	242	1.0	-
	0.065 - 0.44	15	117	1.48	0.50 - 4.40
	>0.44	10	121	0.62	0.12 - 3.27
All Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.50	9	136	1.0	-
	1.50 - 3.04	7	51	2.28	0.77 - 6.76
	>3.04	7	43	2.95	0.92 - 9.45
Oyster Creek Gas	<0.065	12	142	1.0	-
	0.065 - 0.44	9	62	2.28	0.64 - 8.15
	>0.44	2	26	0.92	0.07 - 13.0

Table 51b. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units): Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.50	7	74	1.0	-
	1.50 - 3.04	3	38	0.84	0.20 - 3.49
	>3.04	6	48	1.34	0.41 - 4.36
Oyster Creek Gas	<0.065	8	86	1.0	-
	0.065 - 0.44	5	42	1.67	0.25 - 11.3
	>0.44	3	32	1.24	0.06 - 25.5
Leukemia Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.50	2	38	1.0	-
	1.50 - 3.04	2	17	2.09	0.28 - 15.7
	>3.04	3	15	3.94	0.57 - 27.3
Oyster Creek Gas	<0.065	4	52	1.0	-
	0.065 - 0.44	3	17	4.18	0.37 - 47.7
	>0.44	0	1	0	-

Table 51c. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units): Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.50	5	74	1.0	-
	1.50 - 3.04	4	36	1.95	0.45 - 8.50
	>3.04	4	20	3.57	0.76 - 16.8
Oyster Creek Gas	<0.065	6	64	1.0	-
	0.065 - 0.44	5	36	1.66	0.25 - 10.9
	>0.44	2	30	-	-
Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.50	5	61	1.0	-
	1.50 - 3.04	1	21	0.66	0.07 - 6.23
	>3.04	3	8	4.35	0.85 - 22.4
Oyster Creek Gas	<0.065	4	53	1.0	-
	0.065 - 0.44	4	22	4.69	0.44 - 50.0
	>0.44	1	15	-	-

Table 51d. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units): Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.50	2	32	1.0	-
	1.50 - 3.04	3	21	2.25	0.36 - 14.2
	>3.04	2	17	1.94	0.25 - 15.4
Oyster Creek Gas	<0.065	4	30	1.0	-
	0.065 - 0.44	2	24	0.45	0.06 - 3.56
	>0.44	1	16	-	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.50	2	23	1.0	-
	1.50 - 3.04	1	11	1.04	0.09 - 11.7
	>3.04	1	6	1.84	0.16 - 21.7
Oyster Creek Gas	<0.065	2	19	1.0	-
	0.065 - 0.44	2	16	1.19	0.10 - 14.4
	>0.44	0	5	0	-

Table 51e. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units): All Other Cancers

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancers Diagnosis Ages 0 through 19					
Ciba-Geigy Gas	<1.50	11	92	1.0	-
	1.50 - 3.04	5	46	0.87	0.28 - 2.68
	>3.04	3	52	0.47	0.12 - 1.80
Oyster Creek Gas	<0.065	9	92	1.0	-
	0.065 - 0.44	5	39	1.27	0.20 - 8.08
	>0.44	5	59	0.59	0.05 - 7.47
All Other Cancers Diagnosis Ages 0 through 4					
Ciba-Geigy Gas	<1.50	2	37	1.0	-
	1.50 - 3.04	4	13	7.55	0.79 - 72.0
	>3.04	1	20	1.34	0.08 - 23.2
Oyster Creek Gas	<0.065	4	37	1.0	-
	0.065 - 0.44	2	23	0.73	0.09 - 5.93
	>0.44	1	10	0.78	0.02 - 24.9

Table 52a. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units) by Sex: All Cancers Combined

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.50	10	105	1.0	-	13	135	1.0	-
	1.50 - 3.04	6	62	1.02	0.35 - 2.97	6	58	1.08	0.38 - 3.07
	>3.04	7	63	1.18	0.41 - 3.42	6	57	1.10	0.39 - 3.16
Oyster Creek Gas	<0.065	13	124	1.0	-	10	118	1.0	-
	0.065 - 0.44	6	52	0.70	0.13 - 3.63	9	65	2.55	0.57 - 11.3
	>0.44	4	54	0.26	0.02 - 2.79	6	67	1.19	0.11 - 12.6
All Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.50	4	52	1.0	-	5	84	1.0	-
	1.50 - 3.04	4	18	2.78	0.65 - 11.9	3	33	2.01	0.39 - 10.3
	>3.04	1	20	0.58	0.06- 5.99	6	23	6.07	1.34 - 27.4
Oyster Creek Gas	<0.065	4	49	1.0	-	8	93	1.0	-
	0.065 - 0.44	3	23	2.47	0.25 - 24.4	6	39	2.27	0.50 - 10.4
	>0.44	2	18	4.01	0.07 - 231	0	8	0	-

Table 52b. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units) by Sex: Leukemia

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.50	3	27	1.0	-	4	47	1.0	-
	1.50 - 3.04	1	19	0.47	0.04 - 5.03	2	19	1.26	0.20 - 7.75
	>3.04	3	24	1.16	0.19 - 7.08	3	24	1.47	0.31 - 7.00
Oyster Creek Gas	<0.065	3	34	1.0	-	5	52	1.0	-
	0.065 - 0.44	3	21	1.69	0.15 - 19.0	2	21	1.48	0.06 - 38.0
	>0.44	1	15	0.49	0.01 - 26.3	2	17	3.30	0.04 - 268
Leukemia Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.50	1	10	1.0	-	1	28	1.0	-
	1.50 - 3.04	1	4	2.65	0.16 - 44.9	1	13	2.04	0.12 - 35.4
	>3.04	0	6	0	-	3	9	7.78	0.78 - 77.4
Oyster Creek Gas	<0.065	0	10	-	-	4	42	1.0	-
	0.065 - 0.44	2	10	-	-	1	7	1.73	0.08 - 38.2
	>0.44	0	0	-	-	0	1	0	-

Table 52c. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units) by Sex: Nervous System Cancers

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.50	2	37	1.0	-	3	37	1.0	-
	1.50 - 3.04	3	21	3.23	0.44 - 23.6	1	15	0.92	0.08 - 10.4
	>3.04	2	12	4.20	0.42 - 42.3	2	8	3.13	0.41 - 24.1
Oyster Creek Gas	<0.065	4	36	1.0	-	2	28	1.0	-
	0.065 - 0.44	2	19	0.46	0.03 - 8.28	3	17	3.62	0.30 - 44.2
	>0.44	1	15	-	-	1	15	-	-
Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.50	2	28	1.0	-	3	33	1.0	-
	1.50 - 3.04	1	9	1.74	0.14 - 21.8	0	12	0	-
	>3.04	1	3	4.64	0.32 - 67.6	2	5	3.99	0.52 - 30.5
Oyster Creek Gas	<0.065	2	25	1.0	-	2	28	1.0	-
	0.065 - 0.44	1	5	-	-	3	17	3.62	0.30 - 44.2
	>0.44	1	10	-	-	0	5	0	-

Table 52d. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units) by Sex: Brain and Central Nervous System Cancers

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.50	0	12	-	-	2	20	1.0	-
	1.50 - 3.04	2	9	-	-	1	12	0.84	0.07 - 9.64
	>3.04	1	9	-	-	1	8	1.23	0.11 - 14.4
Oyster Creek Gas	<0.065	3	21	1.0	-	1	9	1.0	-
	0.065 - 0.44	0	8	0	-	2	16	1.19	0.10 - 14.4
	>0.44	0	1	0	-	1	15	-	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.50	0	7	-	-	2	16	1.0	-
	1.50 - 3.04	1	2	-	-	0	9	0	-
	>3.04	0	1	-	-	1	5	1.56	0.13 - 18.6
Oyster Creek Gas	<0.065	1	10	1.0	-	1	9	1.0	-
	0.065 - 0.44	0	0	-	-	2	16	1.19	0.10 - 14.4
	>0.44	0	0	-	-	0	5	0	-

Table 52e. Birth Records Study Analysis of Point Source Air Emission Estimates (See Table 50 for exposure level units) by Sex: All Other Cancers

Exposure Factor	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Other Cancer Diagnosis Ages 0 through 19									
Ciba-Geigy Gas	<1.50	5	41	1.0	-	6	51	1.0	-
	1.50 - 3.04	2	22	0.75	0.14 - 4.04	3	24	0.97	0.21 - 4.47
	>3.04	2	27	0.61	0.11 - 3.34	1	25	0.31	0.03 - 2.98
Oyster Creek Gas	<0.065	6	54	1.0	-	3	38	1.0	-
	0.065 - 0.44	1	12	-	-	4	27	2.66	0.26 - 27.1
	>0.44	2	24	-	-	3	35	0.85	0.02 - 35.9
All Other Cancer Diagnosis Ages 0 through 4									
Ciba-Geigy Gas	<1.50	1	14	1.0	-	1	23	1.0	-
	1.50 - 3.04	2	5	5.27	0.44 - 63.2	2	8	-	-
	>3.04	0	11	0	-	1	9	-	-
Oyster Creek Gas	<0.065	2	14	1.0	-	2	23	1.0	-
	0.065 - 0.44	0	8	0	-	2	15	1.62	0.13 - 19.7
	>0.44	1	8	-	-	0	2	0	-

Table 53. Birth Records Study Proximity to Sites of Concern

Sites of Concern	Cases (n = 48)		Controls (n = 480)	
	Number	Percent	Number	Percent
Birth Residence Within ½ mile of Ciba-Geigy				
Yes	5	10.4	33	6.9
No	43	89.6	447	93.1
Birth Residence Within ½ mile of Ciba-Geigy Pipeline				
Yes	9	18.8	86	17.9
No	39	81.3	394	82.1
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline*				
Yes	2	4.2	7	1.5
No	46	95.8	473	98.5
Birth Residence Within ½ mile of Toms River Section				
Yes	5	10.4	28	5.8
No	43	89.6	452	94.2
Birth Residence Within ½ mile of Reich Farm				
Yes	0	0.0	3	0.6
No	48	100.0	477	99.4
Birth Residence Within ½ mile of Dover Township Municipal Landfill				
Yes	0	0.0	1	0.2
No	48	100.0	479	99.8
Birth Residence Within ½ mile of Ocean County Landfill				
Yes	0	0.0	1	0.2
No	48	100.0	479	99.8
Birth Residence Within ½ mile of Toms River Coal Gas Site				
Yes	2	4.2	4	0.8
No	46	95.8	476	99.2

* This index only includes birth residences within ½ mile of a pipeline break during or after the year a break occurred.

Table 54a. Birth Records Study Analysis of Proximity to Sites of Concern: All Cancers Combined

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 19					
Birth Residence Within ½ mile of Ciba-Geigy	No	43	447	1.0	-
	Yes	5	33	1.64	0.58 - 4.65
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	39	396	1.0	-
	Yes	9	84	1.09	0.50 - 2.36
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	46	473	1.0	-
	Yes	2	7	3.20	0.59 - 17.3
Birth Residence Within ½ mile of Toms River Section	No	43	452	1.0	-
	Yes	5	28	1.86	0.69 - 5.01
Birth Residence Within ½ mile of Reich Farm	No	48	477	1.0	-
	Yes	0	3	0	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	48	479	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Ocean County Landfill	No	48	479	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	46	476	1.0	-
	Yes	2	4	5.65	0.92 - 34.6

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 4					
Birth Residence Within ½ mile of Ciba-Geigy	No	21	218	1.0	-
	Yes	2	12	1.89	0.34 - 10.5
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	18	197	1.0	-
	Yes	5	33	1.65	0.58 - 4.74
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	23	224	1.0	-
	Yes	0	6	0	-
Birth Residence Within ½ mile of Toms River Section	No	21	221	1.0	-
	Yes	2	9	2.27	0.48 - 10.8
Birth Residence Within ½ mile of Reich Farm	No	23	230	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	23	230	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	23	229	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	22	229	1.0	-
	Yes	1	1	10.0	0.63 - 160

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Table 54b. Birth Records Study Analysis of Proximity to Sites of Concern: Leukemia

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Birth Residence Within ½ mile of Ciba-Geigy	No	14	146	1.0	-
	Yes	2	14	1.51	0.30 - 7.48
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	14	126	1.0	-
	Yes	2	34	0.52	0.11 - 2.44
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	15	157	1.0	-
	Yes	1	3	3.33	0.35 - 32.0
Birth Residence Within ½ mile of Toms River Section	No	14	148	1.0	-
	Yes	2	12	1.75	0.36 - 8.62
Birth Residence Within ½ mile of Reich Farm	No	16	159	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	16	160	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	16	160	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	15	157	1.0	-
	Yes	1	3	3.75	0.33 - 43.1

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 4					
Birth Residence Within ½ mile of Ciba-Geigy	No	6	66	1.0	-
	Yes	1	4	4.18	0.20 - 87.4
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	6	54	1.0	-
	Yes	1	16	0.57	0.07 - 4.98
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	7	68	1.0	-
	Yes	0	2	0	-
Birth Residence Within ½ mile of Toms River Section	No	6	67	1.0	-
	Yes	1	3	3.75	0.33 - 43.1
Birth Residence Within ½ mile of Reich Farm	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	7	69	1.0	-
	Yes	0	1	0	-

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Table 54c. Birth Records Study Analysis of Proximity to Sites of Concern: Nervous System Cancers

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Birth Residence Within ½ mile of Ciba-Geigy	No	11	123	1.0	-
	Yes	2	7	3.91	0.59 - 26.1
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	11	109	1.0	-
	Yes	2	21	0.94	0.19 - 4.59
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	13	126	1.0	-
	Yes	0	4	0	-
Birth Residence Within ½ mile of Toms River Section	No	11	122	1.0	-
	Yes	2	8	2.65	0.52 - 13.4
Birth Residence Within ½ mile of Reich Farm	No	13	129	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	13	130	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	13	129	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	12	129	1.0	-
	Yes	1	1	10.0	0.63 - 160

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 4					
Birth Residence Within ½ mile of Ciba-Geigy	No	8	87	1.0	-
	Yes	1	3	3.75	0.33 - 43.1
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	8	78	1.0	-
	Yes	1	12	0.82	0.10 - 6.97
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	9	86	1.0	-
	Yes	0	4	0	-
Birth Residence Within ½ mile of Toms River Section	No	8	86	1.0	-
	Yes	1	4	2.50	0.28 - 22.4
Birth Residence Within ½ mile of Reich Farm	No	9	90	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	9	90	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	9	89	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	8	90	1.0	-
	Yes	1	0	-	-

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Table 54d. Birth Records Study Analysis of Proximity to Sites of Concern: Brain and Central Nervous System Cancers

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Birth Residence Within ½ mile of Ciba-Geigy	No	5	66	1.0	-
	Yes	2	4	-	-
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	6	55	1.0	-
	Yes	1	15	0.60	0.07 - 5.53
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	7	66	1.0	-
	Yes	0	4	0	-
Birth Residence Within ½ mile of Toms River Section	No	6	65	1.0	-
	Yes	1	5	2.15	0.22 - 21.3
Birth Residence Within ½ mile of Reich Farm	No	7	69	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	7	69	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	7	70	1.0	-
	Yes	0	0	-	-

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Birth Residence Within ½ mile of Ciba-Geigy	No	3	39	1.0	-
	Yes	1	1	-	-
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	4	32	1.0	-
	Yes	0	8	0	-
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	4	36	1.0	-
	Yes	0	4	0	-
Birth Residence Within ½ mile of Toms River Section	No	4	38	1.0	-
	Yes	0	2	0	-
Birth Residence Within ½ mile of Reich Farm	No	4	40	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	4	40	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	4	39	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	4	40	1.0	-
	Yes	0	0	-	-

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Table 54e. Birth Records Study Analysis of Proximity to Sites or Concern: All Other Cancers

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancer Diagnosis Ages 0 through 19					
Birth Residence Within ½ mile of Ciba-Geigy	No	18	178	1.0	-
	Yes	1	12	0.81	0.09 - 7.23
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	14	161	1.0	-
	Yes	5	29	2.05	0.66 - 6.41
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	18	190	1.0	-
	Yes	1	0	-	-
Birth Residence Within ½ mile of Toms River Section	No	18	182	1.0	-
	Yes	1	8	1.26	0.15 - 10.3
Birth Residence Within ½ mile of Reich Farm	No	19	189	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	19	189	1.0	-
	Yes	0	1	0	-
Birth Residence Within ½ mile of Ocean County Landfill	No	19	190	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	19	190	1.0	-
	Yes	0	0	-	-

Site of Concern	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancer Diagnosis Ages 0 through 4					
Birth Residence Within ½ mile of Ciba-Geigy	No	7	65	1.0	-
	Yes	0	5	0	-
Birth Residence Within ½ mile of Ciba-Geigy Pipeline	No	4	65	1.0	-
	Yes	3	5	10.2	1.61 - 64.5
Birth Residence Within ½ mile of a Break in Ciba-Geigy Pipeline	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Toms River Section	No	7	68	1.0	-
	Yes	0	2	0	-
Birth Residence Within ½ mile of Reich Farm	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Dover Township Municipal Landfill	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Ocean County Landfill	No	7	70	1.0	-
	Yes	0	0	-	-
Birth Residence Within ½ mile of Toms River Coal Gas Site	No	7	70	1.0	-
	Yes	0	0	-	-

Table 54: page 10 of 10

Table 55a. Birth Records Study Analysis of Proximity to Sites of Concern by Sex: All Cancers Combined

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Cancer Diagnosis Ages 0 through 19									
Birth residence within ½ mile of Ciba-Geigy	No	20	207	1.0	-	23	240	1.0	-
	Yes	3	23	1.39	0.36 - 5.42	2	10	2.11	0.43 - 10.4
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	21	189	1.0	-	18	207	1.0	-
	Yes	2	41	0.42	0.09 - 1.92	7	43	1.88	0.74 - 4.80
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	23	226	1.0	-	23	247	1.0	-
	Yes	0	4	0	-	2	3	6.67	1.11 - 39.9
Birth residence within ½ mile of Toms River Section	No	20	213	1.0	-	23	239	1.0	-
	Yes	3	17	1.85	0.51 - 6.76	2	11	1.86	0.40 - 8.75
All Cancer Diagnosis Ages 0 through 4									
Birth residence within ½ mile of Ciba-Geigy	No	9	80	1.0	-	12	138	1.0	-
	Yes	0	10	0	-	2	2	15.7	1.38 - 179
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	7	79	1.0	-	11	118	1.0	-
	Yes	2	11	2.03	0.38 - 10.8	3	22	1.46	0.38 - 5.65
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	9	86	1.0	-	14	138	1.0	-
	Yes	0	4	0	-	0	2	0	-
Birth residence within ½ mile of Toms River Section	No	9	85	1.0	-	12	136	1.0	-
	Yes	0	5	0	-	2	4	5.65	0.92 - 34.6

Table 55b. Birth Records Study Analysis of Proximity to Sites of Concern by Sex: Leukemia

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Leukemia Diagnosis Ages 0 through 19									
Birth residence within ½ mile of Ciba-Geigy	No	6	61	1.0	-	8	85	1.0	-
	Yes	1	9	1.13	0.12 - 10.6	1	5	2.15	0.22 - 21.3
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	7	56	1.0	-	7	70	1.0	-
	Yes	0	14	0	-	2	20	1.00	0.20 - 5.03
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	7	69	1.0	-	8	88	1.0	-
	Yes	0	1	0	-	1	2	5.00	0.45 - 55.1
Birth residence within ½ mile of Toms River Section	No	6	64	1.0	-	8	84	1.0	-
	Yes	1	6	1.78	0.18 - 17.4	1	6	1.73	0.19 - 16.0
Leukemia Diagnosis Ages 0 through 4									
Birth residence within ½ mile of Ciba-Geigy	No	2	16	1.0	-	4	50	1.0	-
	Yes	0	4	0	-	1	0	-	-
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	2	16	1.0	-	4	38	1.0	-
	Yes	0	4	0	-	1	12	0.79	0.08 - 7.72
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	2	19	1.0	-	5	49	1.0	-
	Yes	0	1	0	-	0	1	0	-
Birth residence within ½ mile of Toms River Section	No	2	19	1.0	-	4	48	1.0	-
	Yes	0	1	0	-	1	2	6.71	0.40 - 113

Table 55c. Birth Records Study Analysis of Proximity to Sites of Concern by Sex: Nervous System Cancers

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Nervous System Cancer Diagnosis Ages 0 through 19									
Birth residence within ½ mile of Ciba-Geigy	No	6	65	1.0	-	5	58	1.0	-
	Yes	1	5	2.55	0.19 - 34.6	1	2	6.71	0.40 - 113
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	6	59	1.0	-	5	50	1.0	-
	Yes	1	11	0.90	0.10 - 7.99	1	10	1.00	0.10 - 9.96
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	7	67	1.0	-	6	59	1.0	-
	Yes	0	3	0	-	0	1	0	-
Birth residence within ½ mile of Toms River Section	No	6	64	1.0	-	5	58	1.0	-
	Yes	1	6	1.73	0.19 - 16.0	1	2	5.00	0.45 - 55.1
Nervous System Cancer Diagnosis Ages 0 through 4									
Birth residence within ½ mile of Ciba-Geigy	No	4	39	1.0	-	4	48	1.0	-
	Yes	0	1	0	-	1	2	6.71	0.40 - 113
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	3	34	1.0	-	5	44	1.0	-
	Yes	1	6	1.90	0.17 - 21.5	0	6	0	-
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	4	37	1.0	-	5	49	1.0	-
	Yes	0	3	0	-	0	1	0	-
Birth residence within ½ mile of Toms River Section	No	4	38	1.0	-	4	48	1.0	-
	Yes	0	2	0	-	1	2	5.00	0.45 - 55.1

Table 55d. Birth Records Study Analysis of Proximity to Sites of Concern by Sex: Brain and Central Nervous System Cancers

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19									
Birth residence within ½ mile of Ciba-Geigy	No	2	27	1.0	-	3	39	1.0	-
	Yes	1	3	-	-	1	1	-	-
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	3	23	1.0	-	3	32	1.0	-
	Yes	0	7	0	-	1	8	1.35	0.12 - 15.8
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	3	27	1.0	-	4	39	1.0	-
	Yes	0	3	0	-	0	1	0	-
Birth residence within ½ mile of Toms River Section	No	2	26	1.0	-	4	39	1.0	-
	Yes	1	4	2.86	0.25 - 32.6	0	1	0	-
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4									
Birth residence within ½ mile of Ciba-Geigy	No	1	10	1.0	-	2	29	1.0	-
	Yes	0	0	-	-	1	1	-	-
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	1	6	1.0	-	3	26	1.0	-
	Yes	0	4	0	-	0	4	0	-
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	1	7	1.0	-	3	29	1.0	-
	Yes	0	3	0	-	0	1	0	-
Birth residence within ½ mile of Toms River Section	No	1	9	1.0	-	3	29	1.0	-
	Yes	0	1	0	-	0	1	0	-

Table 55e. Birth Records Study Analysis of Proximity to Sites of Concern by Sex: All Other Cancers

Sites of Concern	Exposure Level	Male				Female			
		Cases	Controls	Odds Ratio	95% CI	Cases	Controls	Odds Ratio	95% CI
All Other Cancer Diagnosis Ages 0 through 19									
Birth residence within ½ mile of Ciba-Geigy	No	8	81	1.0	-	10	97	1.0	-
	Yes	1	9	1.14	0.11 - 11.8	0	3	0	-
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	8	74	1.0	-	6	87	1.0	-
	Yes	1	16	0.57	0.06 - 4.99	4	13	5.02	1.08 - 23.3
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	9	90	1.0	-	9	100	1.0	-
	Yes	0	0	-	-	1	0	-	-
Birth residence within ½ mile of Toms River Section	No	8	85	1.0	-	10	97	1.0	-
	Yes	1	5	2.07	0.23 - 18.9	0	3	0	-
All Other Cancer Diagnosis Ages 0 through 4									
Birth residence within ½ mile of Ciba-Geigy	No	3	25	1.0	-	4	40	1.0	-
	Yes	0	5	0	-	0	0	-	-
Birth residence within ½ mile of Ciba-Geigy Pipeline	No	2	29	1.0	-	2	36	1.0	-
	Yes	1	1	10.0	0.63 - 160	2	4	10.3	0.87 - 124
Birth residence within ½ mile of a Break in Ciba-Geigy Pipeline	No	3	30	1.0	-	4	40	1.0	-
	Yes	0	0	-	-	0	0	-	-
Birth residence within ½ mile of Toms River Section	No	3	28	1.0	-	4	40	1.0	-
	Yes	0	2	0	-	0	0	-	-

Table 56. Significant ($p < .01$) Correlation Coefficients Among Select Environmental Indices for Birth Records Study Subjects

	Time-adjusted Parkway Well Field	Time-adjusted Holly Well Field	Ciba-Geigy Ambient Gas
Time-specific Holly Well Field	-.23		
Ciba-Geigy Ambient Gas	-.16	.24	
Oyster Creek Ambient Gas	-.28		
Indian Head Well Field			.56
Route 70 Well Field	.15	-.15	.21
South Toms River Well Field			-.15
Brookside Well Field	-.20		-.17
Proximity to Ciba-Geigy	-.12	.22	.71
Proximity to Toms River		.20	.40
Proximity to Coal Gas Site		.15	

Table 57. Birth Records Study Demographic, Pregnancy, and Birth Characteristics

Characteristic	Cases (n=48)		Controls (n=480)	
	Number	Percent	Number	Percent
Sex of child:				
Female	25	52.0	250	52.0
Male	23	48.0	230	48.0
Year of birth of child:				
1964 - 69	7	14.6	70	14.6
1970 - 74	5	10.4	50	10.4
1975 - 79	10	20.8	100	20.8
1980 - 84	14	29.2	130	29.2
1985 - 89	9	18.7	100	18.7
1990 - 96	3	6.3	30	6.3
Year of case diagnosis:				
1979 - 84	12	25.0		
1985 - 90	22	45.8		
1991 - 96	14	29.2		
Race of child's mother:				
White	48	100.0	467	97.3
Non-white	0	0.0	12	2.5
Unknown	0	0.0	1	0.2
Mother's age at child's birth:				
<20 years	3	6.3	39	8.1
20 - 34 years	41	85.4	403	84.0
>34 years	4	8.3	38	7.9
Mother's educational level:				
< 12 years	8	16.7	66	13.8
12-15 years	26	54.2	286	59.6
16+ years	9	18.8	84	17.5
Unknown	5	10.4	44	9.2
Race of child's father:				
White	47	97.9	450	93.8
Non-white	1	2.1	12	2.5
Unknown	0	0.0	18	3.8

Characteristic	Cases (n=48)		Controls (n=480)	
	Number	Percent	Number	Percent
Father's age at child's birth:				
<20 years	1	2.1	13	2.7
20 - 34 years	37	77.1	363	75.6
>34 years	10	20.8	88	18.3
Unknown	0	0.0	16	3.3
Father's educational level:				
< 12 years	6	12.5	51	10.6
12-15 years	28	58.3	239	49.8
16+ years	9	18.8	127	26.5
Unknown	5	10.4	63	13.1
Number of mother's previous live births still living:				
None	9	18.8	187	39.0
1 - 4	38	79.2	279	58.1
> 4	1	2.1	14	2.9
Number of mother's previous live births now deceased:				
None	47	97.9	468	97.5
1+	1	2.1	12	2.5
Terminations (all causes) and stillborns of mother:				
None	39	79.6	361	73.7
1+	6	12.2	89	18.2
Unknown	4	8.2	40	8.2
Total number of known pregnancies of mother:				
1	8	16.7	157	32.7
2 - 4	37	77.1	277	57.7
5+	3	6.3	46	9.6
Any complications of pregnancy for this pregnancy:				
Yes	11	22.9	84	17.5
No	33	68.8	349	72.7
Unknown	4	8.3	47	9.8

Table 57: page 2 of 4

Characteristic	Cases (n=48)		Controls (n=480)	
	Number	Percent	Number	Percent
Any complications of labor or delivery for this pregnancy:				
Yes	10	20.8	126	26.3
No	34	70.8	307	64.0
Unknown	4	8.3	47	9.8
Any abnormal conditions of child:				
Yes	1	2.1	11	2.3
No	35	72.9	372	77.5
Unknown	12	25.0	97	20.2
Any congenital malformations of child:				
Yes	2	4.2	4	0.8
No	35	72.9	375	78.1
Unknown	11	22.9	101	21.0
Adequacy of prenatal care utilization for this pregnancy:				
Inadequate	2	4.2	50	10.4
Intermediate	16	33.3	111	23.1
Adequate	16	33.3	222	46.3
Adequate plus	10	20.8	53	11.0
Unknown	4	8.3	44	9.2
Delivery method* of child:				
Vaginal	5	10.4	46	9.6
C-section	1	2.1	14	2.9
Unknown	42	87.5	420	87.5
Mother's weight gain* during this pregnancy:				
<31 lbs	2	4.2	32	6.7
31+ lbs	3	6.3	22	4.6
Unknown	43	89.6	426	88.8

Table 57: page 3 of 4

Characteristic	Cases (n=48)		Controls (n=480)	
	Number	Percent	Number	Percent
Pregnancy duration of child:				
< 37 weeks	4	8.3	26	5.4
37 - 44 weeks	42	87.5	445	92.7
> 44 weeks	2	4.2	7	1.5
Unknown	0	0.0	2	0.4
Birth weight of child:				
< 2500 grams	1	2.1	22	4.6
2500 - 3999 grams	38	79.2	400	83.3
> 3999 grams	9	18.8	58	12.1
Child was first live birth of mother:				
Yes	9	18.8	187	39.0
No	39	81.3	293	61.0
Child's five minute Apgar* score:				
Lower (0-7)	2	4.2	4	0.8
Higher (8+)	27	56.3	291	60.6
Unknown	19	39.6	185	38.5

* Note: Information on weight gain, five minute Apgar score, and delivery method was not collected on birth certificates until 1989 onward.

**Table 58a. Birth Records Study Analysis of Demographic, Pregnancy and Birth Characteristics:
All Cancers Combined**

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Cancer Diagnosis Ages 0 through 19					
Birth weight (grams) of child	2500-3999	38	400	1.0	-
	<2500	1	22	0.47	0.06 - 3.67
	>3999	9	58	1.60	0.75 - 3.44
Mother's age (years) at child's birth	20-34	41	403	1.0	-
	<20	3	39	0.76	0.23 - 2.54
	>34	4	38	1.04	0.35 - 3.08
Mother's educational level (years)	12-15	26	286	1.0	-
	<12	8	66	1.31	0.55 - 3.12
	>15	9	84	1.15	0.52 - 2.55
Father's age (years) at child's birth	20-34	37	363	1.0	-
	<20	1	13	0.76	0.10 - 6.01
	>34	10	88	1.13	0.54 - 2.37
Father's educational level (years)	12-15	28	239	1.0	-
	<12	6	51	1.02	0.39 - 2.71
	>15	9	127	0.58	0.27 - 1.29
Child was first live birth of mother	No	39	293	1.0	-
	Yes	9	187	0.35	0.16 - 0.75
Adequacy of prenatal care utilization for this pregnancy	Adequate	26	275	1.0	-
	Less than adequate	18	161	1.19	0.62 - 2.26
Any complications of pregnancy for this pregnancy	No	33	349	1.0	-
	Yes	11	84	1.39	0.66 - 2.90

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Any complications of labor or delivery for this pregnancy	No	34	307	1.0	-
	Yes	10	126	0.69	0.33 - 1.47
Any spontaneous or induced terminations of mother	No	39	361	1.0	-
	Yes	6	89	0.52	0.20 - 1.36
Any congenital malformations of child	No	35	375	1.0	-
	Yes	2	4	5.65	0.92 - 34.6
Any abnormal conditions of child	No	35	363	1.0	-
	Yes	1	11	0.80	0.10 - 6.59
All Cancer Diagnosis Ages 0 through 4					
Birth weight (grams) of child	2500-3999	17	189	1.0	-
	<2500	1	11	1.00	0.12 - 8.38
	>3999	5	30	1.81	0.64 - 5.15
Mother's age (years) at child's birth	20-34	18	192	1.0	-
	<20	2	17	1.24	0.27 - 5.75
	>34	3	21	1.52	0.41 - 5.59
Mother's educational level (years)	12-15	11	159	1.0	-
	<12	4	17	3.35	0.92 - 12.2
	>15	7	52	1.90	0.69 - 5.24
Father's age (years) at child's birth	20-34	16	172	1.0	-
	<20	0	5	0	-
	>34	7	47	1.59	0.62 - 4.05
Father's educational level (years)	12-15	14	129	1.0	-
	<12	2	11	1.73	0.35 - 8.47
	>15	6	78	0.67	0.25 - 1.85

Table 58: page 2 of 15

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child was first live birth of mother	No	17	125	1.0	-
	Yes	6	105	0.43	0.16 - 1.11
Adequacy of prenatal care utilization for this pregnancy	Adequate	13	147	1.0	-
	Less than adequate	10	80	1.42	0.59 - 3.46
Any complications of pregnancy for this pregnancy	No	16	189	1.0	-
	Yes	7	38	2.15	0.83 - 5.54
Any complications of labor or delivery for this pregnancy	No	16	151	1.0	-
	Yes	7	76	0.86	0.33 - 2.22
Any spontaneous or induced terminations of mother	No	19	178	1.0	-
	Yes	4	52	0.72	0.23 - 2.21
Any congenital malformations of child	No	20	219	1.0	-
	Yes	2	4	5.65	0.92 - 34.6
Any abnormal conditions of child	No	21	215	1.0	-
	Yes	0	3	0	-

Table 58: page 3 of 15

Table 58b. Birth Records Study Analysis of Demographic, Pregnancy and Birth Characteristics: Leukemia

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Leukemia Diagnosis Ages 0 through 19					
Birth weight (grams) of child	2500-3999	12	126	1.0	-
	<2500	0	14	0	-
	>3999	4	20	1.97	0.60 - 6.41
Mother's age (years) at child's birth	20-34	13	137	1.0	-
	<20	3	12	2.48	0.66 - 9.34
	>34	0	11	0	-
Mother's educational level (years)	12-15	9	96	1.0	-
	<12	4	19	2.26	0.62 - 8.22
	>15	1	25	0.42	0.05 - 3.51
Father's age (years) at child's birth	20-34	14	119	1.0	-
	<20	1	6	1.46	0.17 - 12.8
	>34	1	28	0.30	0.04 - 2.37
Father's educational level (years)	12-15	9	96	1.0	-
	<12	4	19	1.22	0.24 - 6.10
	>15	1	25	0.36	0.07 - 1.74
Child was first live birth of mother	No	12	96	1.0	-
	Yes	4	64	0.50	0.15 - 1.62
Adequacy of prenatal care utilization for this pregnancy	Adequate	5	92	1.0	-
	Less than adequate	9	47	3.81	1.16 - 12.5
Any complications of pregnancy for this pregnancy	No	11	112	1.0	-
	Yes	3	25	1.21	0.32 - 4.62

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Any complications of labor or delivery for this pregnancy	No	9	90	1.0	-
	Yes	5	47	1.05	0.33 - 3.37
Any spontaneous or induced terminations of mother	No	14	117	1.0	-
	Yes	1	33	0.25	0.03 - 2.00
Any congenital malformations of child	No	11	123	1.0	-
	Yes	1	0	-	-
Any abnormal conditions of child	No	12	117	1.0	-
	Yes	0	5	0	-
Leukemia Diagnosis Ages 0 through 4					
Birth weight (grams) of child	2500-3999	4	57	1.0	-
	<2500	0	6	0	-
	>3999	3	7	5.66	1.07 - 29.9
Mother's age (years) at child's birth	20-34	5	61	1.0	-
	<20	2	5	4.16	0.74 - 23.3
	>34	0	4	0	-
Mother's educational level (years)	12-15	3	50	1.0	-
	<12	3	6	8.33	1.23 - 56.6
	>15	1	14	1.21	0.10 - 14.7
Father's age (years) at child's birth	20-34	6	51	1.0	-
	<20	0	3	0	-
	>34	1	13	0.64	0.07 - 5.86
Father's educational level (years)	12-15	4	41	1.0	-
	<12	2	2	7.39	0.98 - 55.8
	>15	1	22	0.43	0.04 - 4.32

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child was first live birth of mother	No	5	33	1.0	-
	Yes	2	37	0.37	0.07 - 1.99
Adequacy of prenatal care utilization for this pregnancy	Adequate	1	49	1.0	-
	Less than adequate	6	20	16.6	1.79 - 154
Any complications of pregnancy for this pregnancy	No	5	51	1.0	-
	Yes	2	16	1.28	0.23 - 7.21
Any complications of labor or delivery for this pregnancy	No	4	41	1.0	-
	Yes	3	26	1.17	0.24 - 5.61
Any spontaneous or induced terminations of mother	No	6	55	1.0	-
	Yes	1	15	0.60	0.07 - 5.53
Any congenital malformations of child	No	6	70	1.0	-
	Yes	1	0	-	-
Any abnormal conditions of child	No	7	67	1.0	-
	Yes	0	2	0	-

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**Table 58c. Birth Records Study Analysis of Demographic, Pregnancy and Birth Characteristics:
Nervous System Cancers**

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Nervous System Cancer Diagnosis Ages 0 through 19					
Birth weight (grams) of child	2500-3999	10	111	1.0	-
	<2500	1	1	10.3	0.64 - 167
	>3999	2	18	1.22	0.26 - 5.73
Mother's age (years) at child's birth	20-34	11	105	1.0	-
	<20	0	9	0	-
	>34	2	16	1.24	0.25 - 6.15
Mother's educational level (years)	12-15	6	80	1.0	-
	<12	1	18	0.41	0.29 - 5.86
	>15	5	30	2.03	0.60 - 6.88
Father's age (years) at child's birth	20-34	10	98	1.0	-
	<20	0	2	0	-
	>34	3	28	1.07	0.28 - 4.17
Father's educational level (years)	12-15	6	65	1.0	-
	<12	2	19	1.08	0.17 - 6.86
	>15	4	42	0.99	0.27 - 3.65
Child was first live birth of mother	No	10	78	1.0	-
	Yes	3	52	0.44	0.11 - 1.71
Adequacy of prenatal care utilization for this pregnancy	Adequate	12	79	1.0	-
	Less than adequate	1	49	0.12	0.01 - 0.95
Any complications of pregnancy for this pregnancy	No	8	108	1.0	-
	Yes	5	21	3.21	0.96 - 10.7

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Any complications of labor or delivery for this pregnancy	No	10	92	1.0	-
	Yes	3	37	0.73	0.18 - 2.94
Any spontaneous or induced terminations of mother	No	12	104	1.0	-
	Yes	1	26	0.33	0.04 - 2.66
Any congenital malformations of child	No	12	112	1.0	-
	Yes	0	3	0	-
Any abnormal conditions of child	No	11	107	1.0	-
	Yes	1	3	3.20	0.28 - 36.7
Nervous System Cancer Diagnosis Ages 0 through 4					
Birth weight (grams) of child	2500-3999	7	76	1.0	-
	<2500	1	1	9.77	0.60 - 158
	>3999	1	13	0.85	0.10 - 7.09
Mother's age (years) at child's birth	20-34	7	76	1.0	-
	<20	0	4	0	-
	>34	2	10	2.24	0.40 - 12.4
Mother's educational level (years)	12-15	4	62	1.0	-
	<12	0	3	0	-
	>15	4	24	2.18	0.54 - 8.84
Father's age (years) at child's birth	20-34	6	71	1.0	-
	<20	0	0	-	-
	>34	3	19	1.83	0.43 - 7.83
Father's educational level (years)	12-15	5	49	1.0	-
	<12	0	5	0	-
	>15	3	34	0.85	0.19 - 3.71

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child was first live birth of mother	No	6	54	1.0	-
	Yes	3	36	0.76	0.18 - 3.14
Adequacy of prenatal care utilization for this pregnancy	Adequate	9	55	1.0	-
	Less than adequate	0	33	0	-
Any complications of pregnancy for this pregnancy	No	5	79	1.0	-
	Yes	4	11	4.94	1.26 - 19.4
Any complications of labor or delivery for this pregnancy	No	6	61	1.0	-
	Yes	3	29	1.06	0.24 - 4.72
Any spontaneous or induced terminations of mother	No	8	70	1.0	-
	Yes	1	20	0.43	0.05 - 3.70
Any congenital malformations of child	No	9	87	1.0	-
	Yes	0	3	0	-
Any abnormal conditions of child	No	9	84	1.0	-
	Yes	0	1	0	-

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**Table 58d. Birth Records Study Analysis of Demographic, Pregnancy and Birth Characteristics:
Brain and Central Nervous System Cancers**

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 19					
Birth weight (grams) in child	2500-3999	5	63	1.0	-
	<2500	1	0	-	-
	>3999	1	7	1.73	0.19 - 16.0
Mother's age (years) at child's birth	20-34	7	55	1.0	-
	<20	0	6	0	-
	>34	0	9	0	-
Mother's educational level (years)	12-15	4	43	1.0	-
	<12	0	14	0	-
	>15	2	13	1.81	0.29 - 11.3
Father's age (years) at child's birth	20-34	7	51	1.0	-
	<20	0	2	0	-
	>34	0	16	0	-
Father's educational level (years)	12-15	3	36	1.0	-
	<12	1	12	0.83	0.06 - 11.7
	>15	2	20	1.14	0.18 - 7.35
Child was first live birth on mother	No	5	44	1.0	-
	Yes	2	26	0.67	0.12 - 3.80
Adequacy of prenatal care utilization for this pregnancy	Adequate	6	37	1.0	-
	Less than adequate	1	32	0.20	0.02 - 1.74
Any complications of pregnancy for this pregnancy	No	4	56	1.0	-
	Yes	3	13	3.36	0.66 - 17.2

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Any complications of labor or delivery for this pregnancy	No	9	90	1.0	-
	Yes	5	47	1.14	0.21 - 6.28
Any spontaneous or induced terminations of mother	No	6	56	1.0	-
	Yes	1	14	0.66	0.07 - 6.11
Any congenital malformations of child	No	7	60	1.0	-
	Yes	0	2	0	-
Any abnormal conditions of child	No	6	60	1.0	-
	Yes	1	2	5.29	0.32 - 86.9
Brain and Central Nervous System Cancer Diagnosis Ages 0 through 4					
Birth weight (grams) of child	2500-3999	3	36	1.0	-
	<2500	1	0	-	-
	>3999	0	4	0	-
Mother's age (years) at child's birth	20-34	4	34	1.0	-
	<20	0	2	0	-
	>34	0	4	0	-
Mother's educational level (years)	12-15	2	30	1.0	-
	<12	0	0	-	-
	>15	1	10	1.15	0.10 - 12.8
Father's age (years) at child's birth	20-34	4	33	1.0	-
	<20	0	0	-	-
	>34	0	7	0	-
Father's educational level (years)	12-15	2	22	1.0	-
	<12	0	1	0	-
	>15	1	16	0.59	0.05 - 6.70

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child was first live birth of mother	No	2	22	1.0	-
	Yes	2	18	1.22	0.16 - 9.25
Adequacy of prenatal care utilization for this pregnancy	Adequate	4	23	1.0	-
	Less than adequate	0	16	0	-
Any complications of pregnancy for this pregnancy	No	2	36	1.0	-
	Yes	2	4	6.71	0.91 - 49.5
Any complications of labor or delivery for this pregnancy	No	2	29	1.0	-
	Yes	2	11	2.56	0.33 - 19.7
Any spontaneous or induced terminations of mother	No	3	32	1.0	-
	Yes	1	8	1.39	0.11 - 18.2
Any congenital malformations of child	No	4	38	1.0	-
	Yes	0	2	0	-
Any abnormal conditions of child	No	4	40	1.0	-
	Yes	0	0	-	-

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**Table 58e. Birth Records Study Analysis of Demographic, Pregnancy and Birth Characteristics:
All Other Cancers**

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
All Other Cancer Diagnosis Ages 0 through 19					
Birth weight (grams) of child	2500-3999	16	163	1.0	-
	<2500	0	7	0	-
	>3999	3	20	1.56	0.41 - 5.98
Mother's age (years) at child's birth	20-34	17	161	1.0	-
	<20	0	18	0	-
	>34	2	11	1.77	0.35 - 8.91
Mother's educational level (years)	12-15	11	110	1.0	-
	<12	3	29	1.03	0.27 - 3.93
	>15	3	29	1.04	0.27 - 3.99
Father's age (years) at child's birth	20-34	13	98	1.0	-
	<20	0	2	0	-
	>34	6	32	2.19	0.76 - 6.35
Father's educational level (years)	12-15	12	97	1.0	-
	<12	2	19	0.85	0.17 - 4.25
	>15	3	44	0.52	0.14 - 2.00
Child was first live birth of mother	No	17	119	1.0	-
	Yes	2	71	0.18	0.04 - 0.83
Adequacy of prenatal care utilization for this pregnancy	Adequate	9	104	1.0	-
	Less than adequate	8	65	1.41	0.53 - 3.75
Any complications of pregnancy for this pregnancy	No	14	129	1.0	-
	Yes	3	38	0.71	0.19 - 2.70

Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Any complications of labor or delivery for this pregnancy	No	15	125	1.0	-
	Yes	2	43	0.37	0.08 - 1.73
Any spontaneous or induced terminations of mother	No	14	144	1.0	-
	Yes	3	28	1.09	0.30 - 3.99
Any congenital malformations of child	No	12	140	1.0	-
	Yes	1	1	0	-
Any abnormal conditions of child	No	12	139	1.0	-
	Yes	0	3	0	-
All Other Cancer Diagnosis Ages 0 through 4					
Birth weight (grams) of child	2500-3999	6	56	1.0	-
	<2500	0	4	0	-
	>3999	1	10	0.93	0.10 - 8.62
Mother's age (years) at child's birth	20-34	6	55	1.0	-
	<20	0	8	0	-
	>34	1	7	1.32	0.15 - 12.1
Mother's educational level (years)	12-15	4	47	1.0	-
	<12	1	8	1.59	0.14 - 18.4
	>15	2	14	1.74	0.27 - 11.1
Father's age (years) at child's birth	20-34	4	50	1.0	-
	<20	0	2	0	-
	>34	3	15	2.41	0.51 - 11.3
Father's educational level (years)	12-15	5	39	1.0	-
	<12	0	4	0	-
	>15	2	22	0.66	0.11 - 3.86

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Exposure Factor	Exposure Level	Number of Cases	Number of Controls	Odds Ratio	95% Confidence Interval
Child was first live birth of mother	No	6	38	1.0	-
	Yes	1	32	0.19	0.02 - 1.72
Adequacy of prenatal care utilization for this pregnancy	Adequate	3	43	1.0	-
	Less than adequate	4	27	2.07	0.44 - 9.72
Any complications of pregnancy for this pregnancy	No	6	59	1.0	-
	Yes	1	11	0.89	0.10 - 8.10
Any complications of labor or delivery for this pregnancy	No	6	49	1.0	-
	Yes	1	21	0.36	0.04 - 3.41
Any spontaneous or induced terminations of mother	No	5	53	1.0	-
	Yes	2	17	1.23	0.23 - 6.65
Any congenital malformations of child	No	5	62	1.0	-
	Yes	1	1	0	-
Any abnormal conditions of child	No	5	64	1.0	-
	Yes	0	0	-	-

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Table 59. Birth Records Study Exposure to Tobacco Smoke and Alcohol

Characteristic	Cases (n=48)		Controls (n=480)	
	Number	Percent	Number	Percent
Mother used tobacco* during pregnancy:				
Yes	1	2.1	5	1.0
No	4	8.3	52	10.8
Unknown	43	89.6	423	88.1
Mother consumed any alcohol* during pregnancy:				
Yes	0	0.0	0	0.0
No	5	10.4	58	12.1
Unknown	43	89.6	422	87.9

* Information on tobacco and alcohol use was not collected on birth certificates until 1989 onward.